Enabling Replication

The following information illustrates the steps required to enable a High Availability Replicant Server.

It is assumed that you already have a functional installation of TapeTrack Server running.

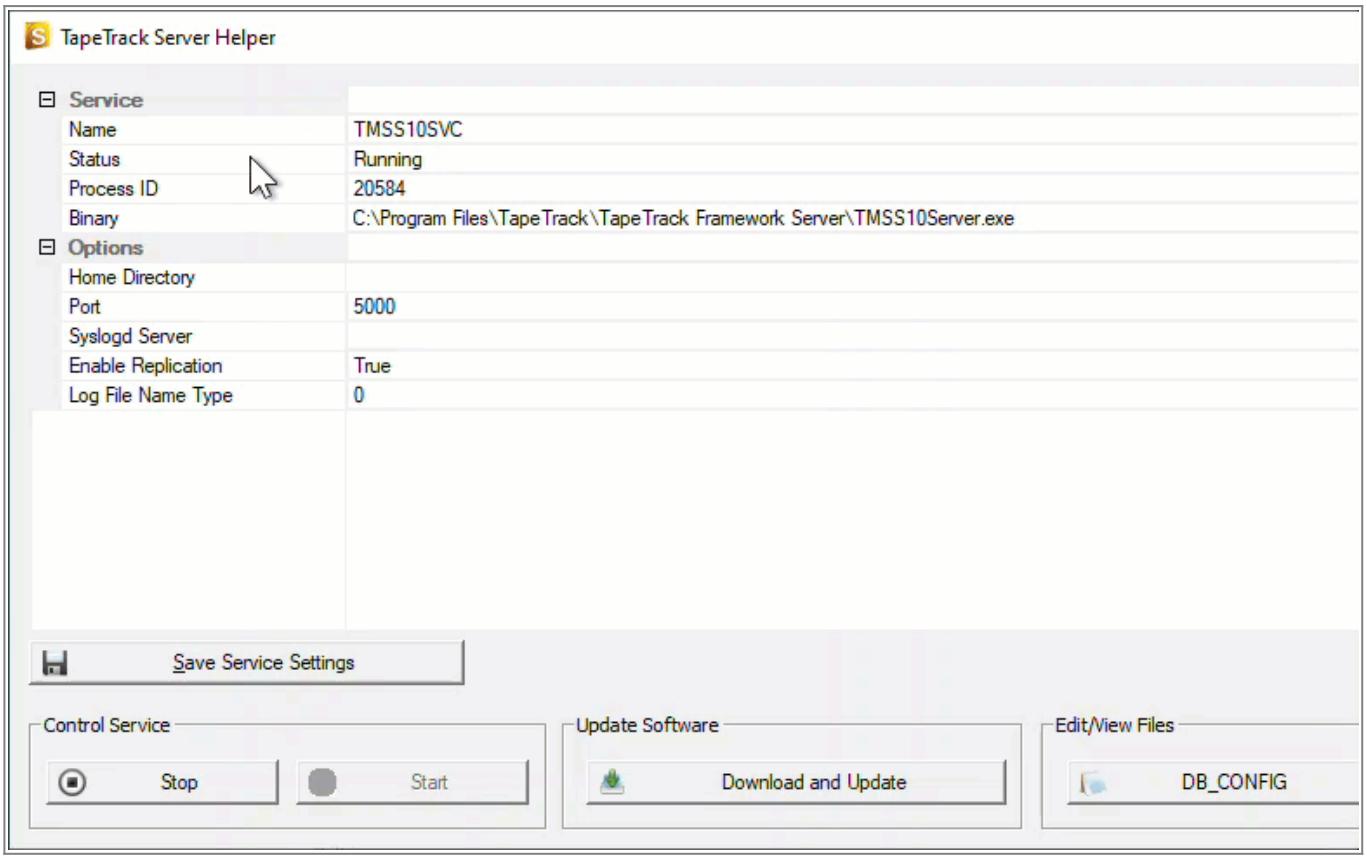
All steps must be performed in the order presented to create a successful connection between the Master and Replican Server.

IP addresses included in the instructions are for demonstration only, these must be replaced with your correct values.

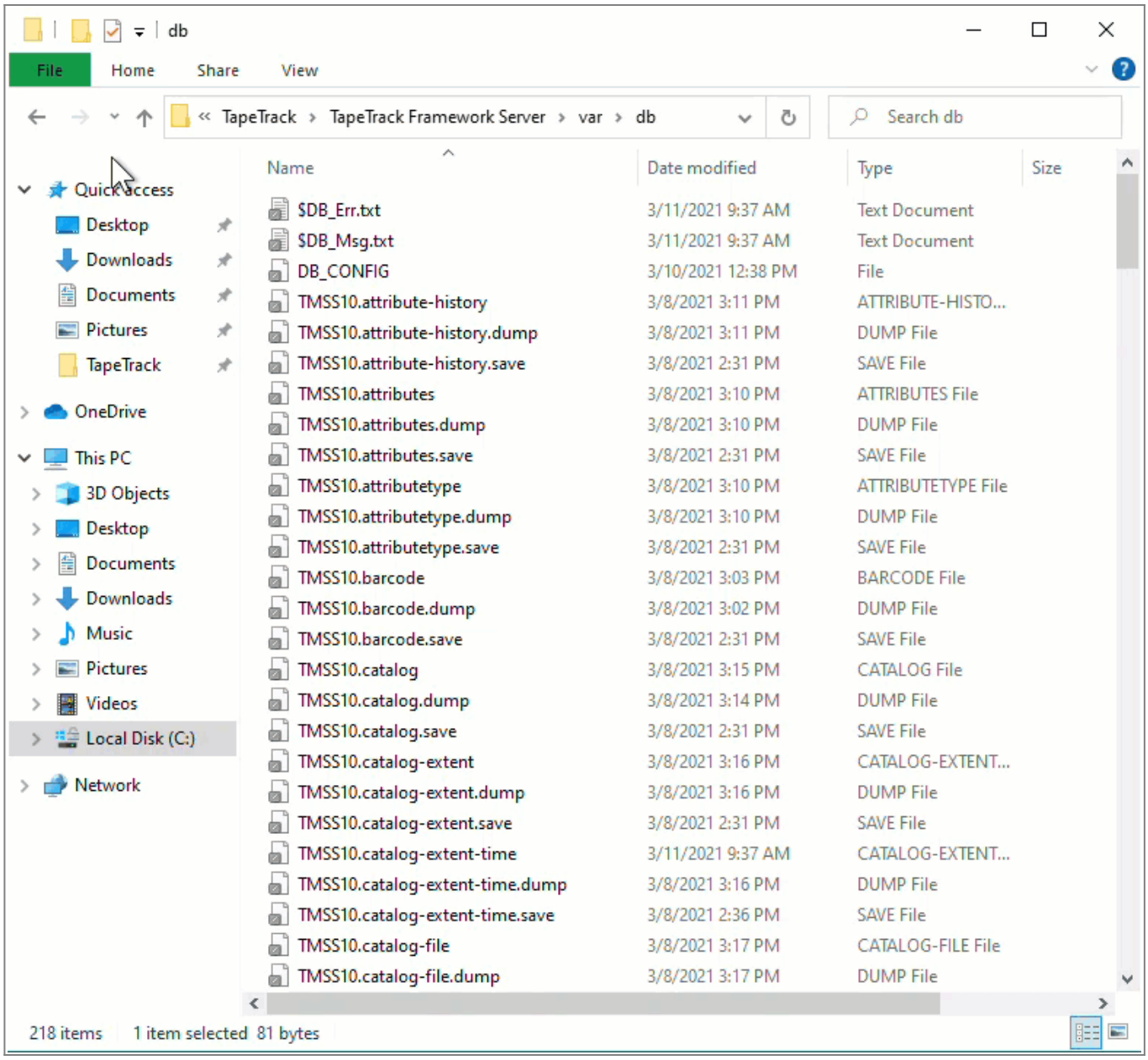
Steps On Remote Server

Install the TapeTrack Framework Server software on your Replicant machine.

Stop the service on the Replicant machine.



Delete all database files on the Replicant machine (all files in the `TapeTrack\TapeTrack Framework Server\var\db` directory) **EXCEPT** the DB_CONFIG file).



Edit the TapeTrack\TapeTrack Framework Server\DB_CONFIG file and remove the comments (#'s) starting from the line **rep-set-priority 0** to make the machine a Replicant.

Edit the Replicant Server and Master Server host names in the DB_CONFIG file.

- Replace **replicant-1.tapetrack.com** with the IP address of **your** Replicant Server (your_replicant_IP_address used as Replicant IP example).
- Replace **master.tapetrack.com** with the IP address of **your** Master Server (your_master_IP_address used as Master IP example).

Ensure you use the IP4 address for the Master and Replicant Server as using the domain name can cause issues with the IP6 address replacing the IP4 address, stopping the Master and Replicant communication.

DB_CONFIG - Notepad

File Edit Format View Help

```
set_flags DB_LOG_AUTOREMOVE
#
# Set the log directory to an alternate directory
#
set_lg_dir ..\dblogs
#
#
# Set Verbose Output
#
set_verbose DB_VERB_DEADLOCK
set_verbose DB_VERB_RECOVERY
set_verbose DB_VERB_REPLICATION
set_verbose DB_VERB_WAITSFOR
#
#rep_set_priority 1
#repmgr_site replicant-1.tapetrack.com 5010
#repmgr_site master.tapetrack.com 5010 db_local_site on db_group_creator on
#
# Optional settings
#
#rep_set_config DB_REP_CONF_BULK on
#rep_set_config DB_REP_CONF_AUTOINIT off
#
#
#rep_set_priority 0
#repmgr_site replicant-1.tapetrack.com 5010 db_local_site on
#repmgr_site master.tapetrack.com 5010 db_bootstrap_helper on
#rep_set_config DB_REP_CONF_BULK on
```

Ln 1, Col 1 100% Windows (CRLF) UTF-8

Ensure that the replication TCP/IP ports specified in the DB_CONFIG file are open for inbound connections.

Steps On Master Server

Stop the TapeTrack service on the master TapeTrack server.

Do Not delete any files on the master server

Edit the TapeTrack\TapeTrack Framework Server\DB_CONFIG file and remove the comments (#'s) starting from the line **rep-set-priority 1** to make the machine a master server.

Edit the DB_CONFIG file to define the local and remote server. Edit the Replicant Server and Master

Server host names in the DB_CONFIG file.

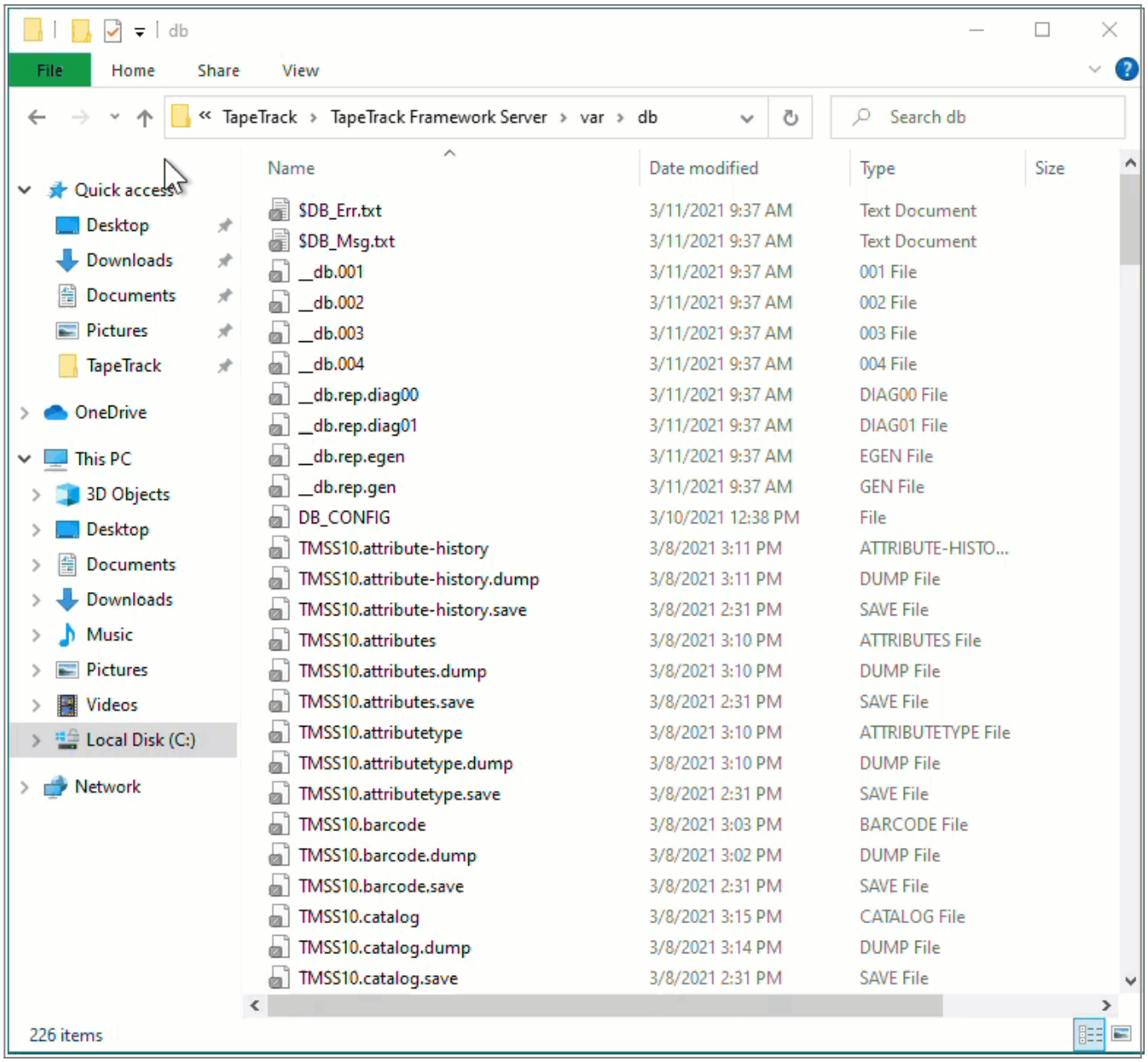
- Replace **replicant-1.tapetrack.com** with the domain name (or IP address) of **your** Replicant Server (your_replicant_IP_address used as Replicant IP example).
- Replace **master.tapetrack.com** with the domain name (or IP address) of **your** Master Server (your_master_IP_address used as Master IP example).

*DB_CONFIG - Notepad

File Edit Format View Help

```
set_verbose DB_VERB_WAITSFOR
#
rep_set_priority 1
repmgr_site RRR.RRR.RRR.RRR 5010
repmgr_site MMM.MMM.MMM.MMM 5010 db_local_site on db_group_creator on
#
# Optional settings
#
#rep_set_config DB_REP_CONF_BULK on
#rep_set_config DB_REP_CONF_AUTOINIT off
#
#
#rep_set_priority 0
#repmgr_site replicant-1.tapetrack.com 5010 db_local_site on
#repmgr_site master.tapetrack.com 5010 db_bootstrap_helper on
#rep_set_config DB_REP_CONF_BULK on
```

Delete all the files starting with `_db.` and `db.rep.`.



Ensure that the replication TCP/IP ports are open for inbound/outbound connections.

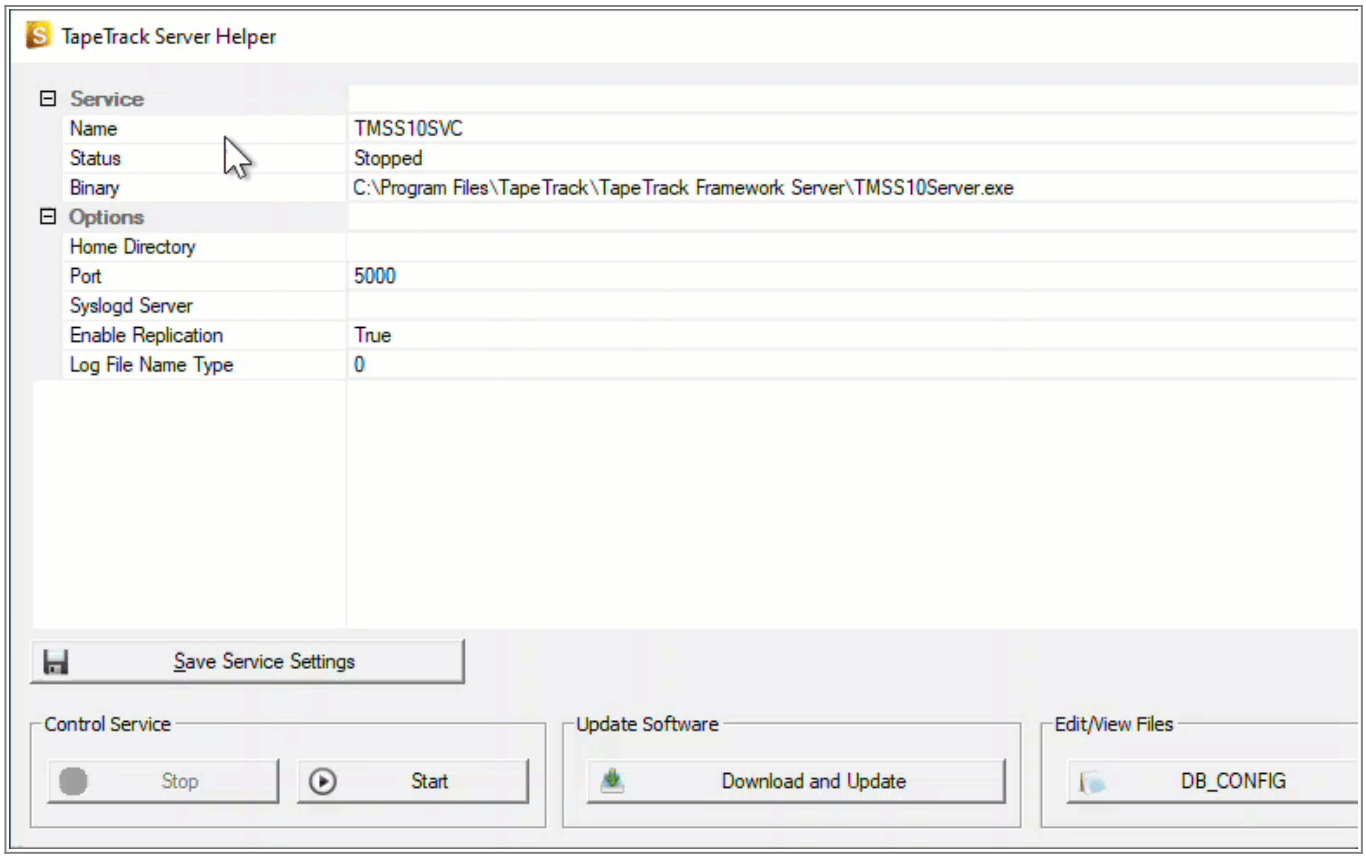
Start The Servers

Start the TapeTrack service on the remote machine.

The replicant server will prepare the database for connection to the master server and move into `Start Pending` mode while waiting for the master server to respond.

Start the master TapeTrack Server.

The master server will now connect to the replicant server and load the database information across the connection. This may take time depending on the database size.



Confirming Functionality Of Primary And Replicant Servers

Open `$DB_Msg.txt` file (in the `var/db` directory) on both the primary and replicant server to ensure that replication is functional.

Ensure that all firewall ports are open to allow the replication traffic to pass between the replicants.

The replication communications are not encrypted so if replication is enabled you should ensure that all machines that are replicated are in a trusted network or connected via a secure VPN connection.

Server replication troubleshooting

See Also

Restoring replicant server to master server status

From:
https://rtfm.tapetrack.com/ - **TapeTrack Documentation**

Permanent link:
https://rtfm.tapetrack.com/server/replication?rev=1615420038

Last update: **2025/01/21 22:07**