SAP Landscape Transformation (SLT) Replication Server User Guide

February 2014

NOTE :

Pease refer the following guide for SLT installation.
http://help.sap.com/hana/SAP_HANA_Installation_Guide_Trigger_Based_Replication_SLT_en.pdf

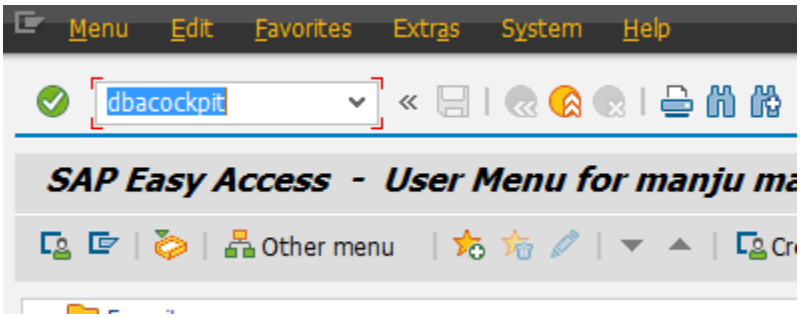
Once you done with your SLT installation, proceed as mentioned in this document for DATA replication/transfer from source DB to HANA DB.

PART 1

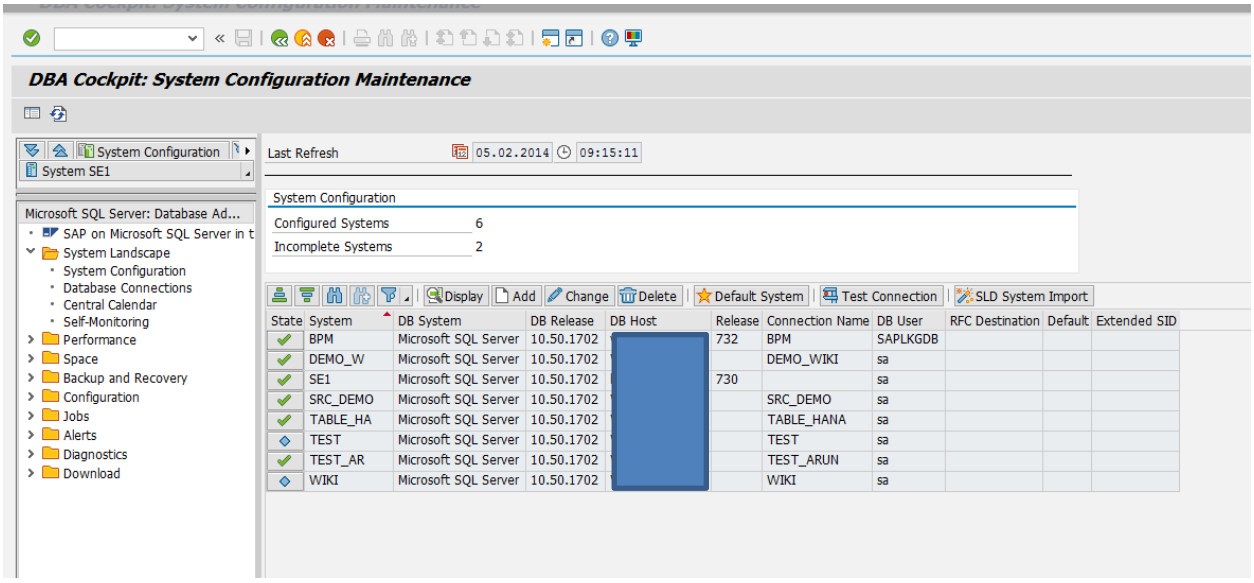
Creating a Source DB connection

Part 1:

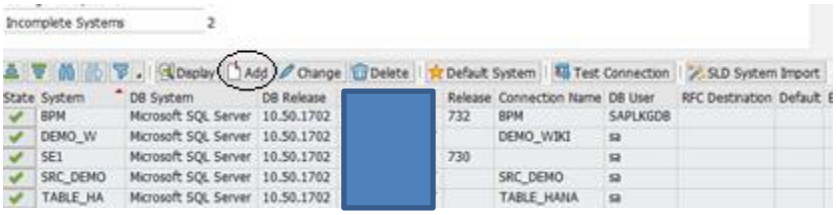
First step is to add source DB connection, Using the SAP GUI, logon to your SLT configured system with the user credentials and invoke transaction DBACOCKPIT



Here you could see all the available connection in DBCON table.



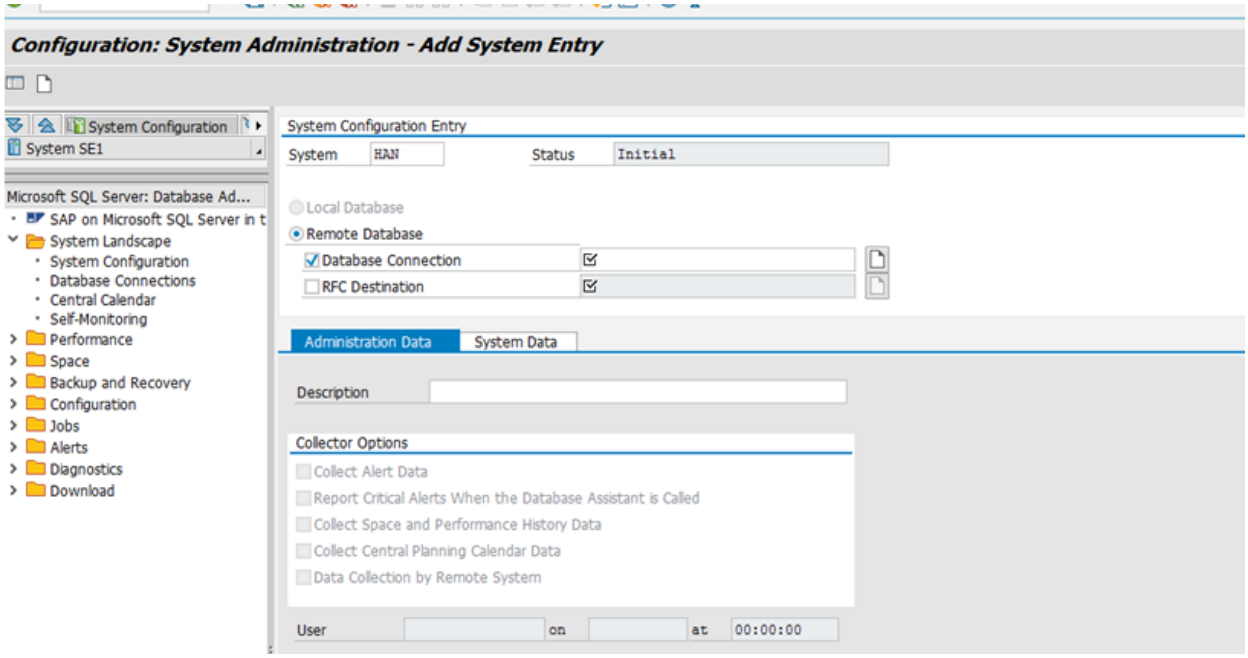
Click on ADD button



Configuration tab will open wherein you have to provide your source system (SAP / Non SAP) connection details.

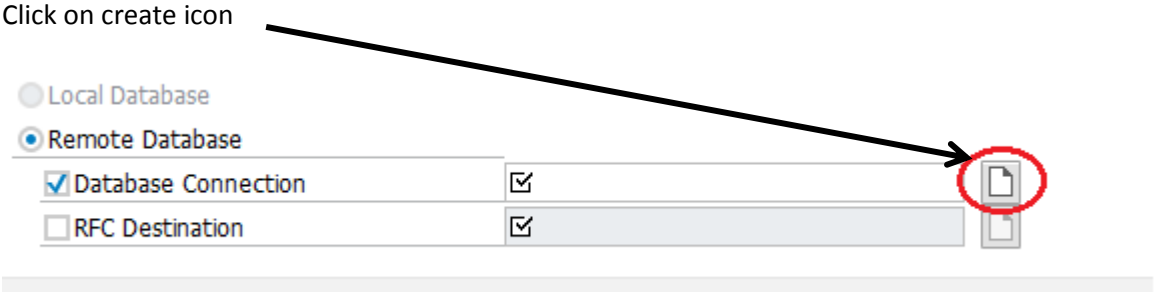
If your source system is Non SAP system, choose Database connection

If it is a SAP system choose RFC connection.

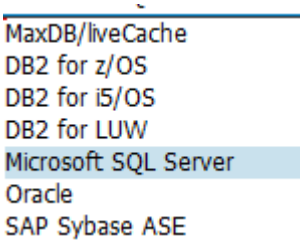


Here in this document we are using Non SAP system so, chosen Database connection

Click on create icon



Choose your database type in **Database system** Drop down entry.



Give all the required details (refer the following screen shot)

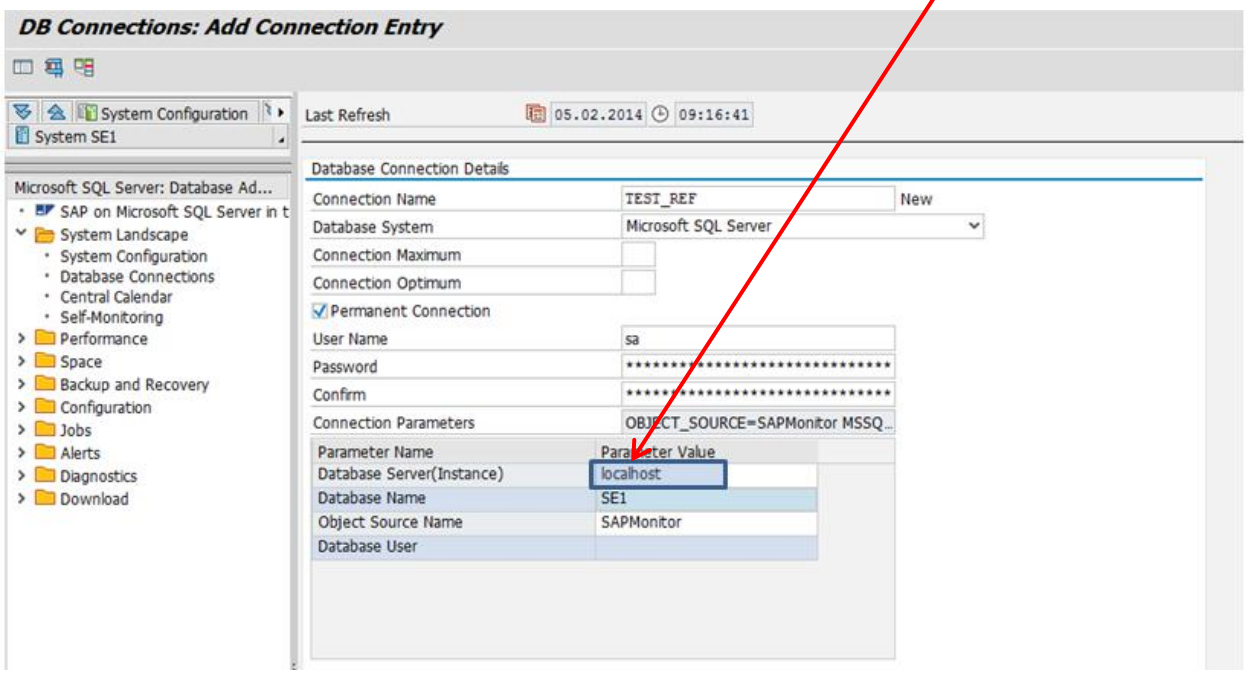
Here we are using MS SQL server.

Give the database user credentials in the provided field (refer the following screen shot)

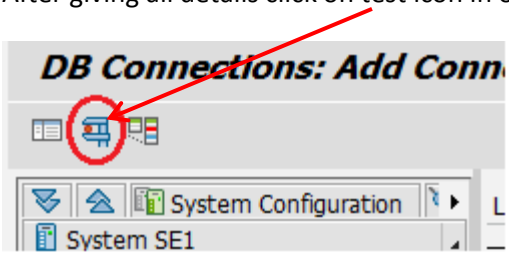
Here we are using local database where our SLT configured system is running so, we have given **local host** in Database Server field.

NOTE:

If you are using separate MSSQL DB /other databases as a source, give the hostname in Database Server (Instance) field

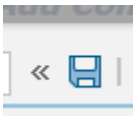


After giving all details click on test icon in order to test your database connection.

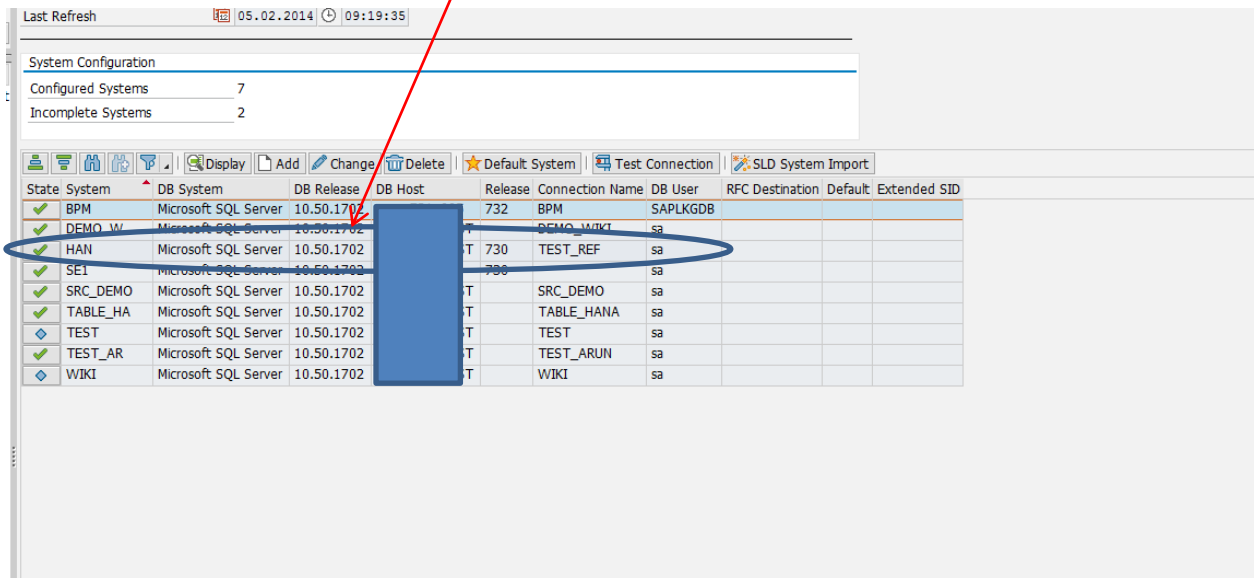


If provided details are correct, following success message displays

Click on save button to save your configuration.

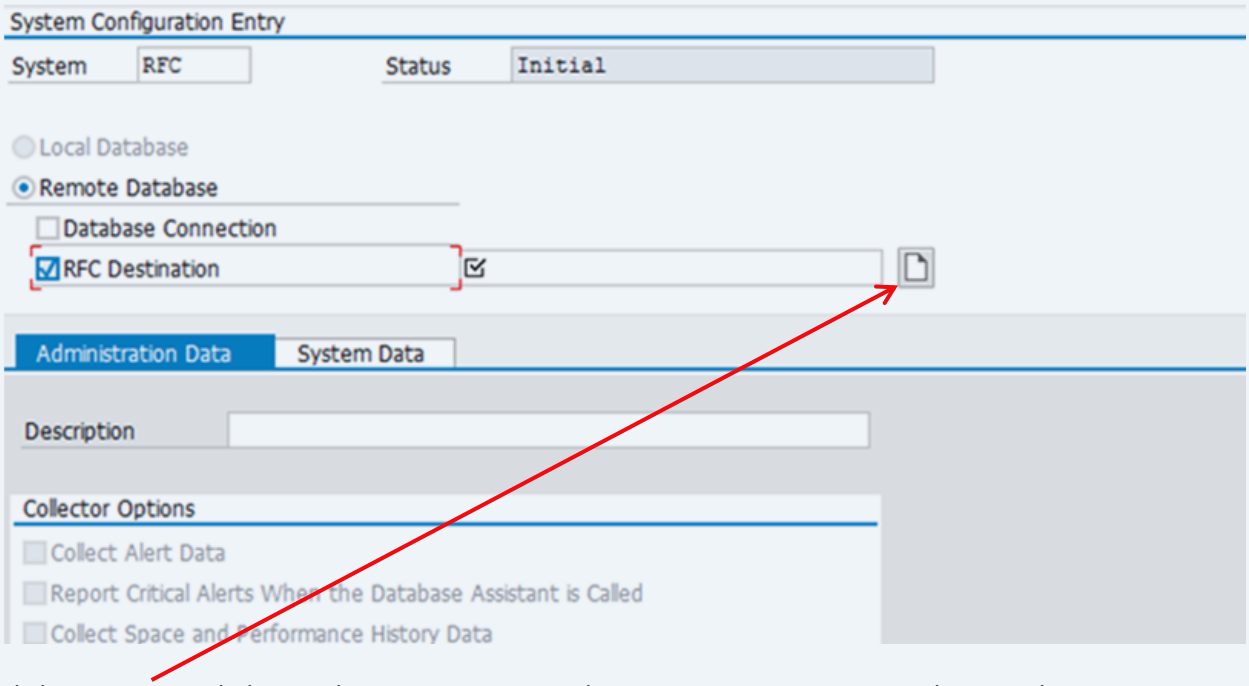


Once you save, your database connection details will appear in the table (in DBACOCKPIT transaction home page)

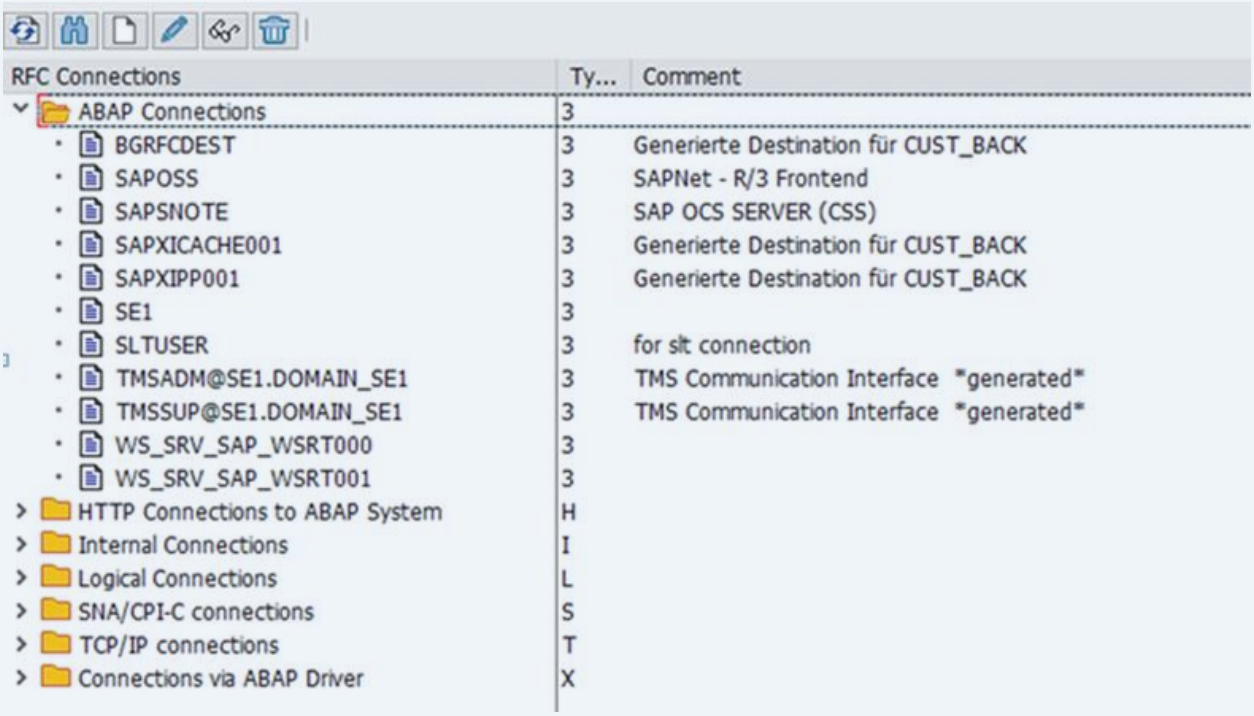


NOTE:

For non-SAP system choose RFC connection and give the details



Click on create and Choose the connection according to your requirements and proceed

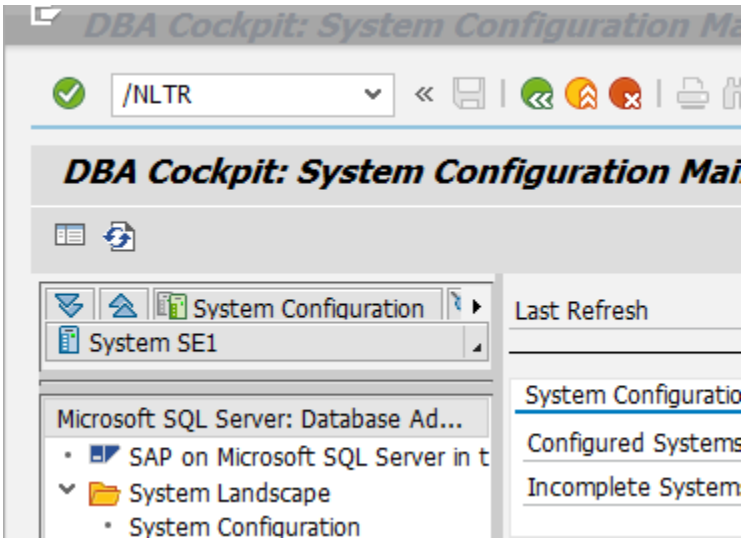


PART 2

Creating a HANA schema and providing source and destination details

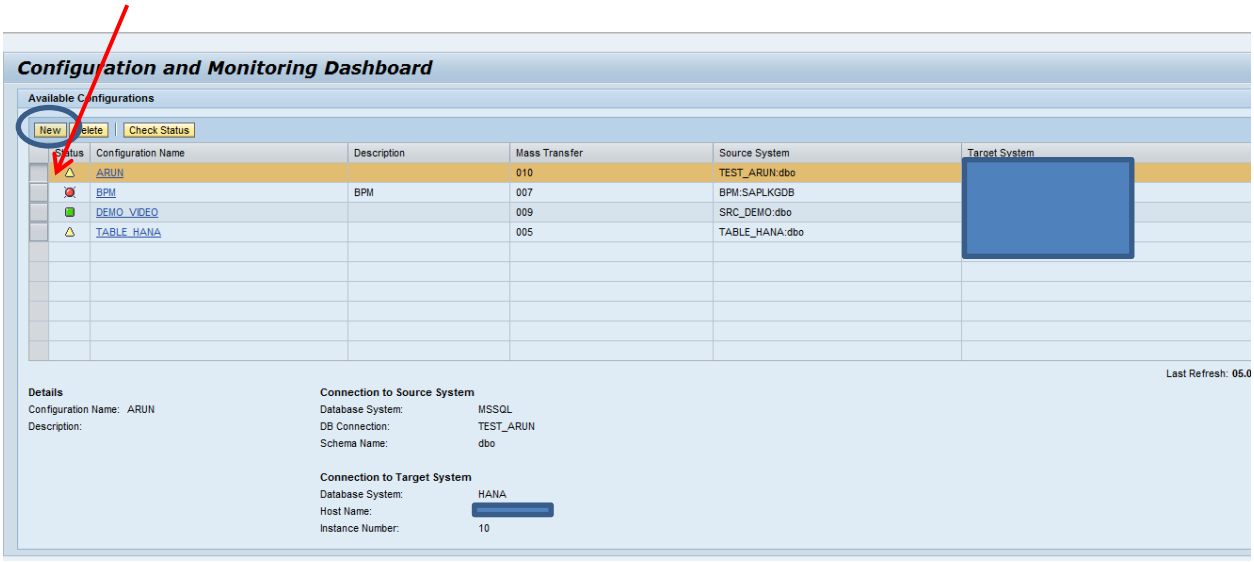
Part 2:

The Next step is to create HANA schema. Using the SAP GUI, logon to your SLT configured system with the user credentials and invoke transaction LTR.



This brings up a Webdynpro. This will display the available configurations, if any exists already.

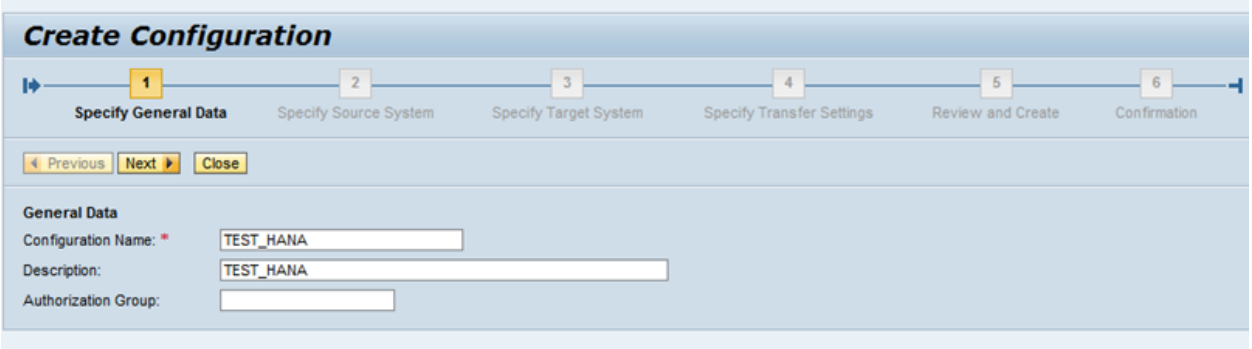
Click on new button.



The following screen appears,

In the first step, define the configuration name and a description;

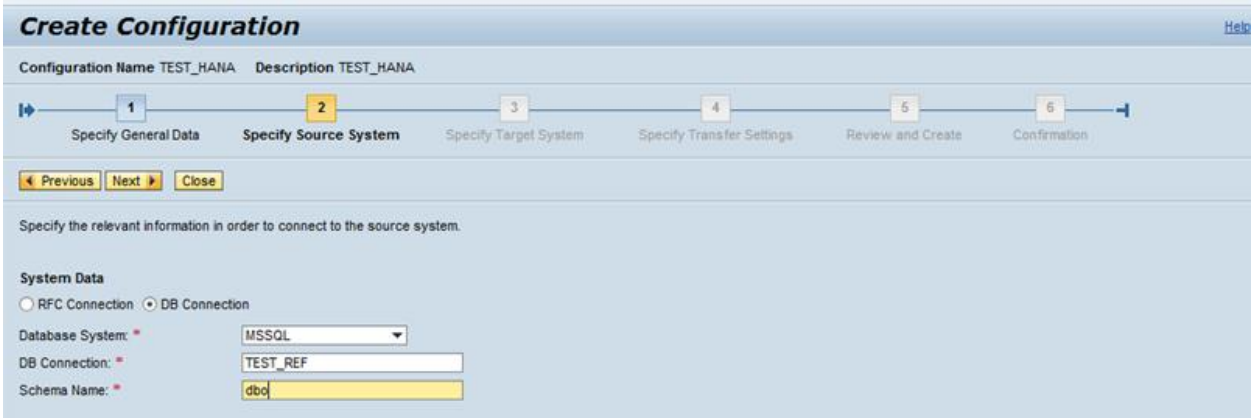
The configuration name will be also used as the new schema name that will be created in the HANA system.



Proceeding to next step;

In the second step, specify your source system. For an ABAP based system connect via RFC connection, for a non-ABAP system connect via secondary DB Connection (SLT supports only SAP supported DB's).

Choose system Data as **DB connection** for non-SAP system, select your database type, give your DB connection name which you have already created in previous steps (in DBACOCKPIT transaction) and also give schema name of your database.

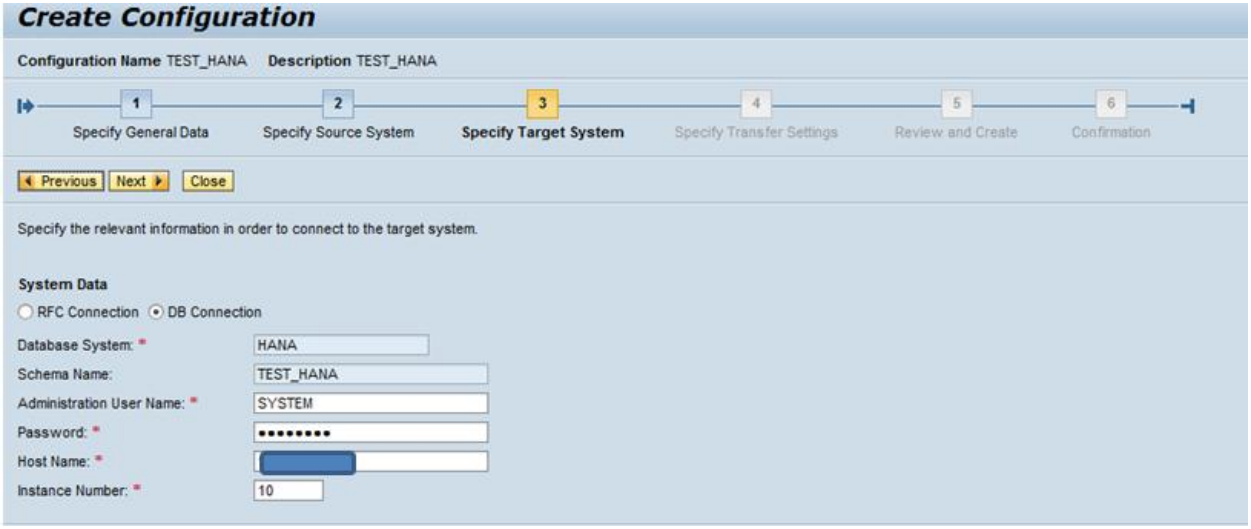


Proceeding to next step;

In the third step, specify all relevant information about the target system.

(With DMIS SP2011 SP5, SLT allows replication to SAP HANA and SAP BW. Replication to ABAP based targets and SAP supported DB are available project based.)

Refer the following screen shot.



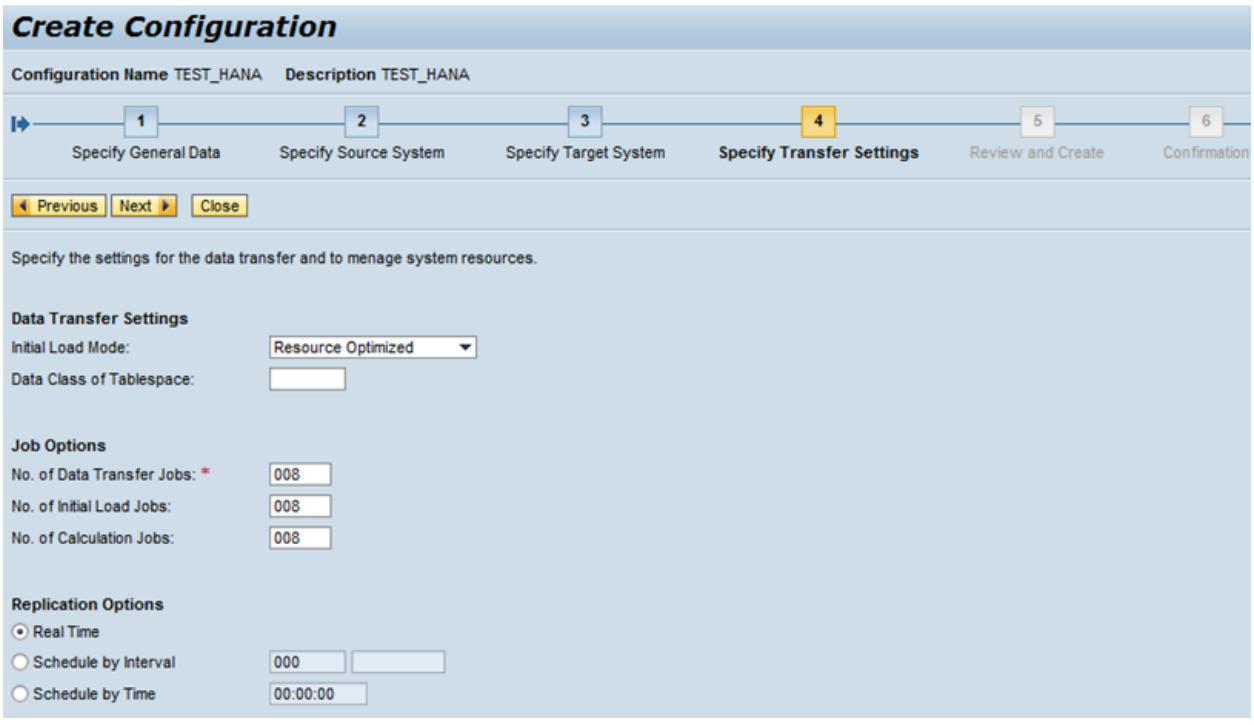
In the fourth step, specify the transfer settings.

There are two options for the initial load process - resource optimized or performance optimized.

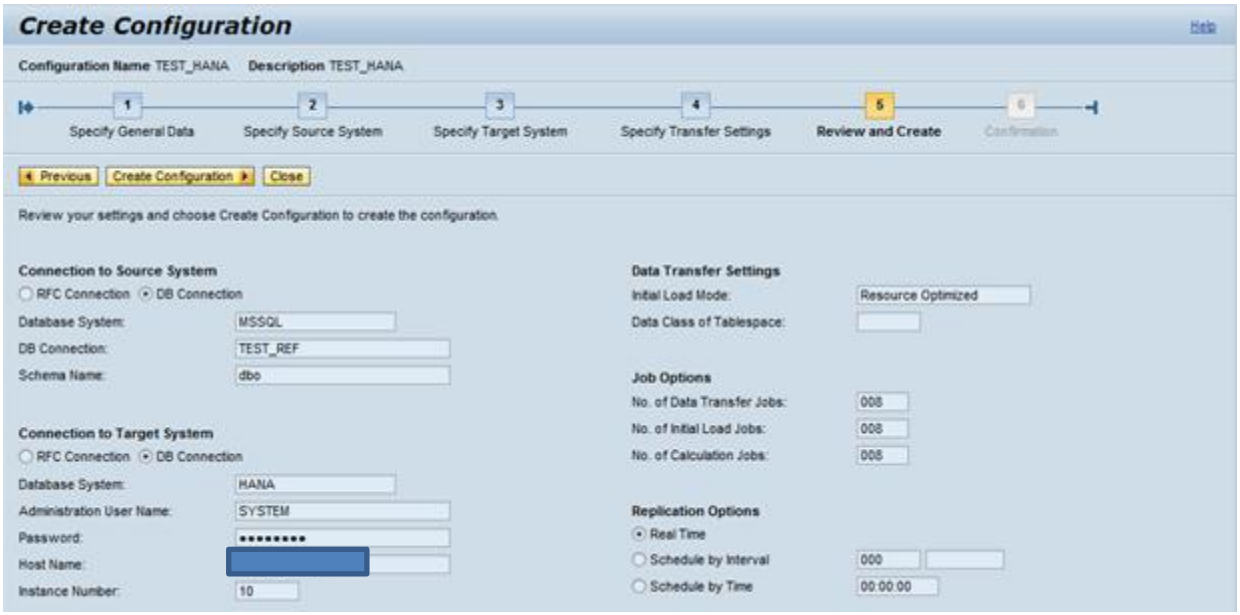
The data class of the table space defines where SLT creates the logging tables on the source system. Administrators can use this option for better monitoring.

In the section Job Options, you can define the jobs that are allocated for this configuration at SAP LT Replication Server but, make sure that your SLT should have minimum 10 background jobs.

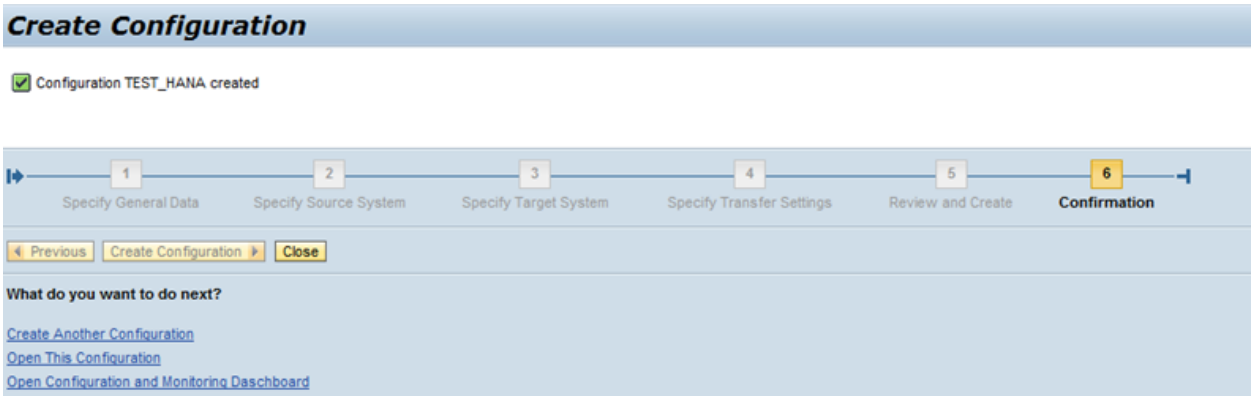
Here in job options, we are choosing **Real time** for Real time data replication.



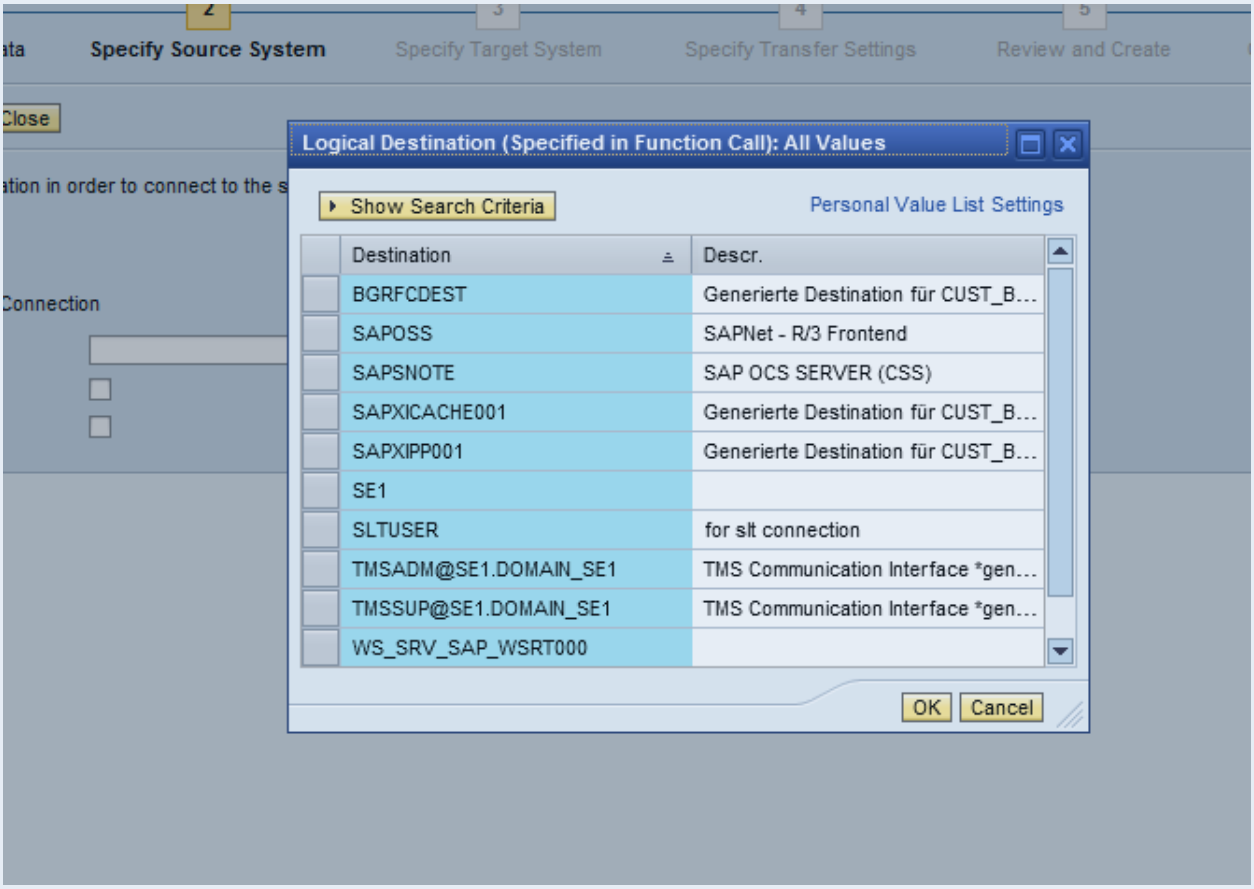
In the fifth step review all your settings and start the creation process of the configuration



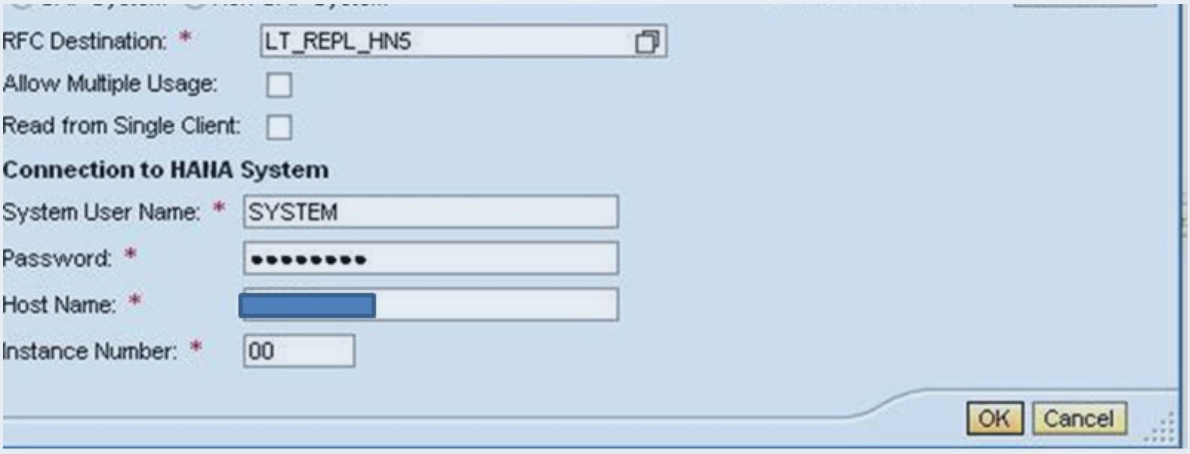
The system displays a success message when the configuration has been created successfully.



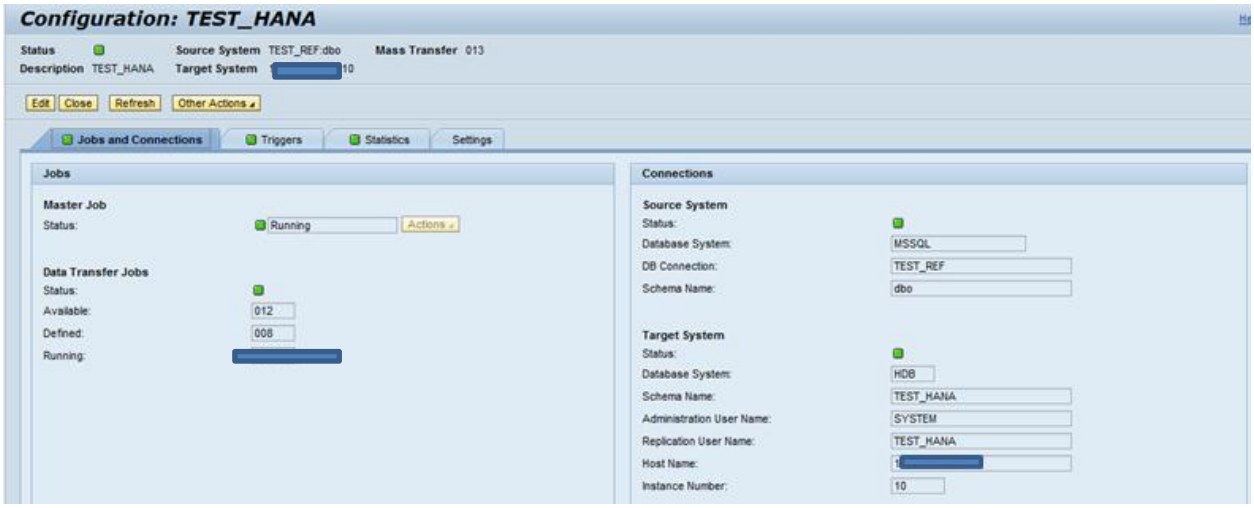
NOTE : For SAP system, choose RFC connection in step 2 and select your connection



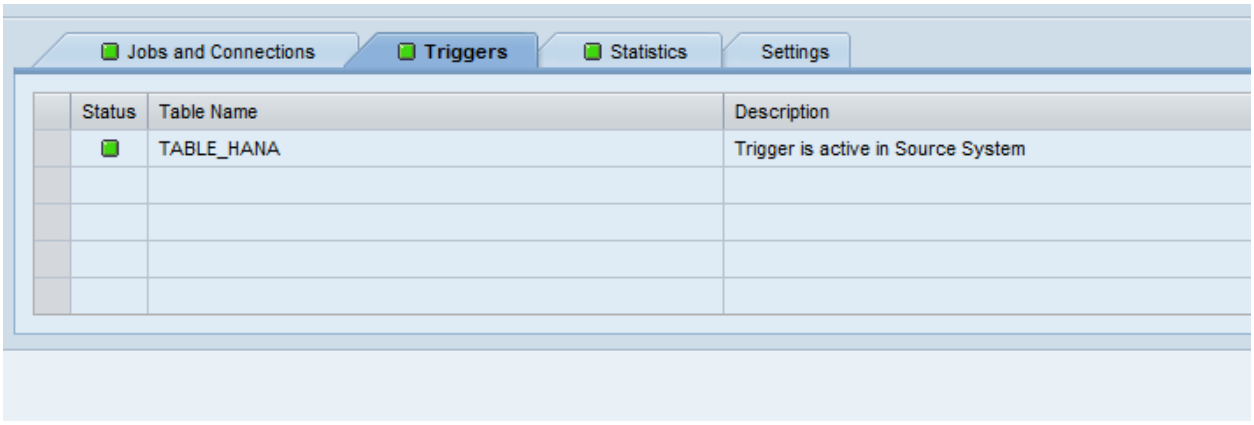
After selecting your connection, give your HANA system details



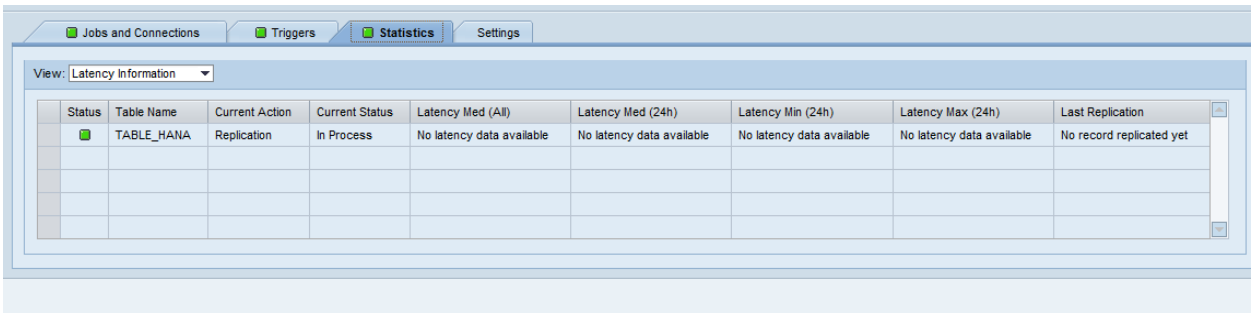
You can open the configuration to monitor the triggers.



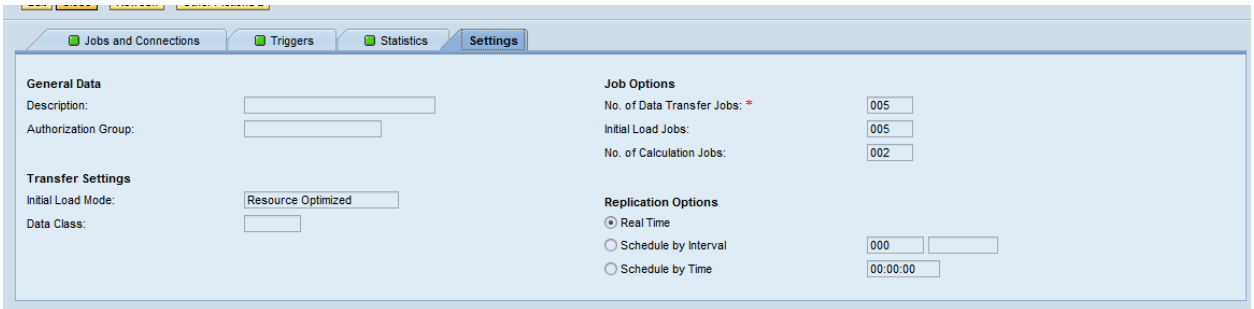
Triggers tab :



Statistics tab :



Settings tab:



Now you are almost ready to transfer the tables/data from non-SAP system/SAP system to SAP HANA.

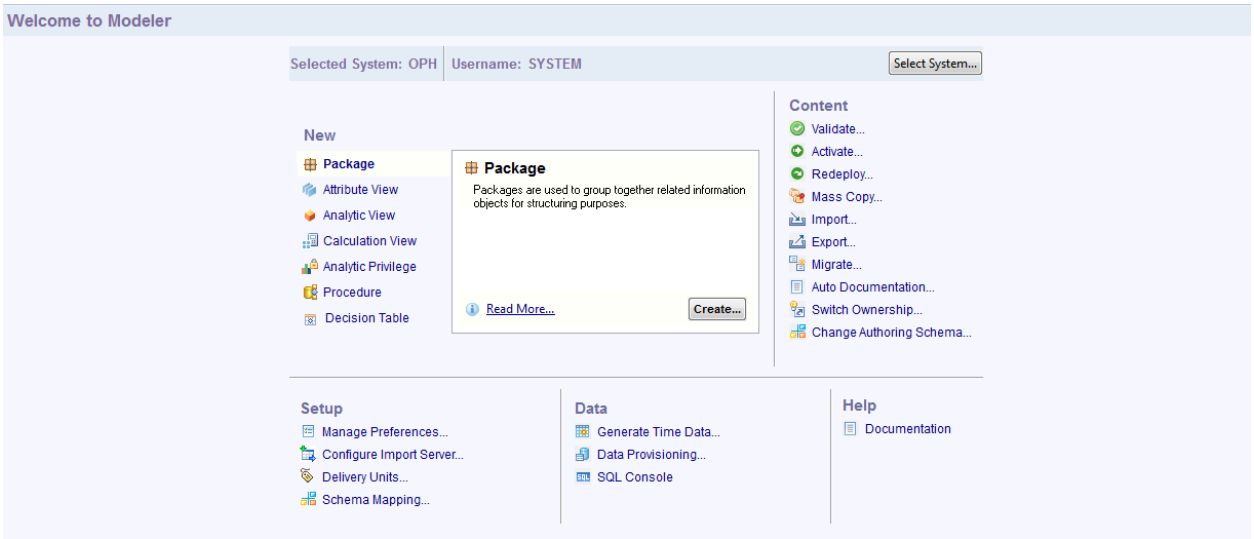
In order to initiate the replication, go to your HANA studio where your target system (HANA system which you have used in Configuration) is connected and proceed as mentioned in the part 3.

PART 3

Initializing the Replication

Part 3:

SAP LT Replication Server is integrated into the HANA Modeler. Enter Data Provisioning to start the replication



Steps to be followed to start Replication

1. Select source system

2. Select the target schema (this is equal to your configuration name)

3. Use button Load and / or Replicate to set up the data replication

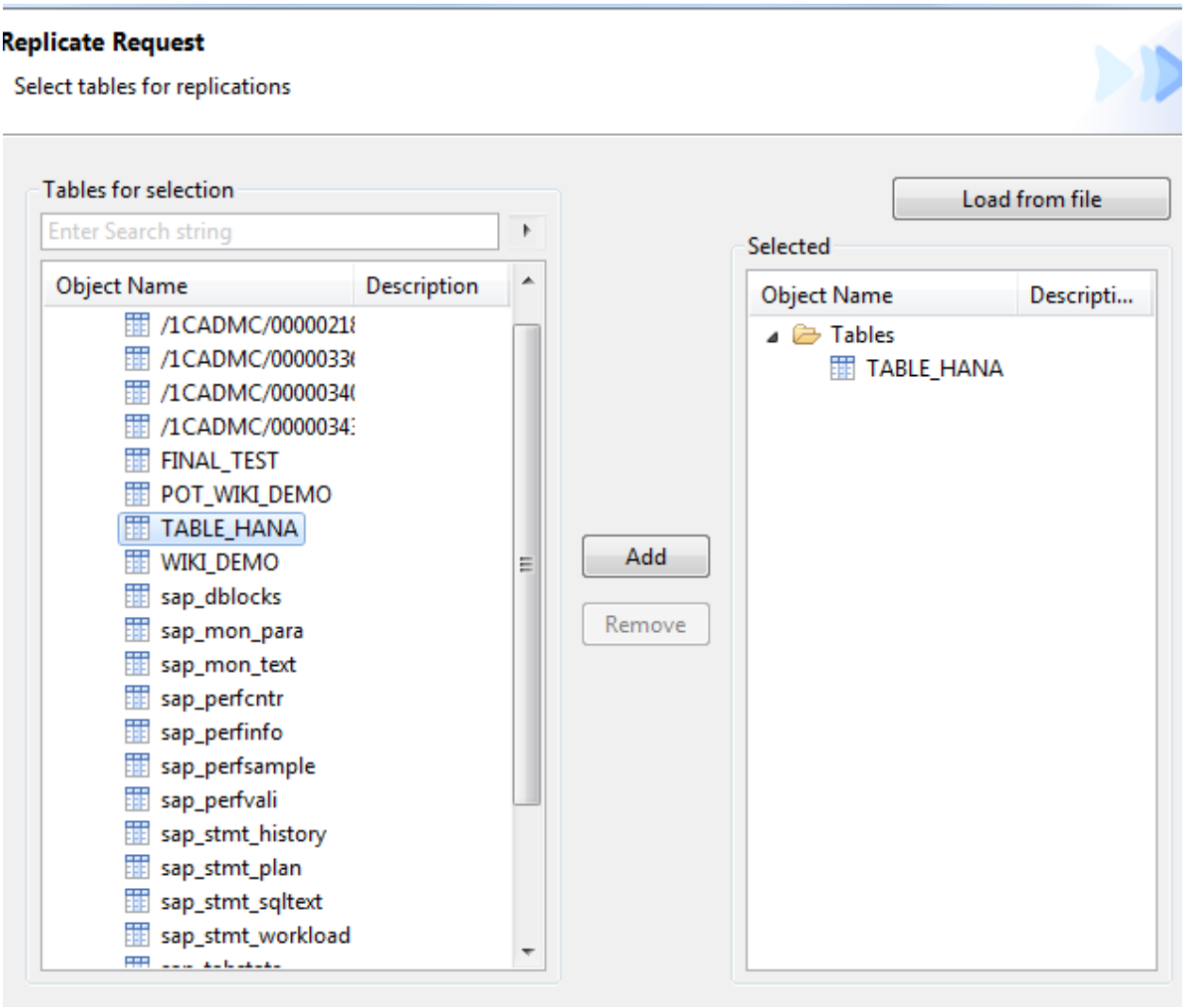
4. Use button Stop Replication to finish replication

5. Use button Suspend to pause replication

6. Use button Resume continuing replication

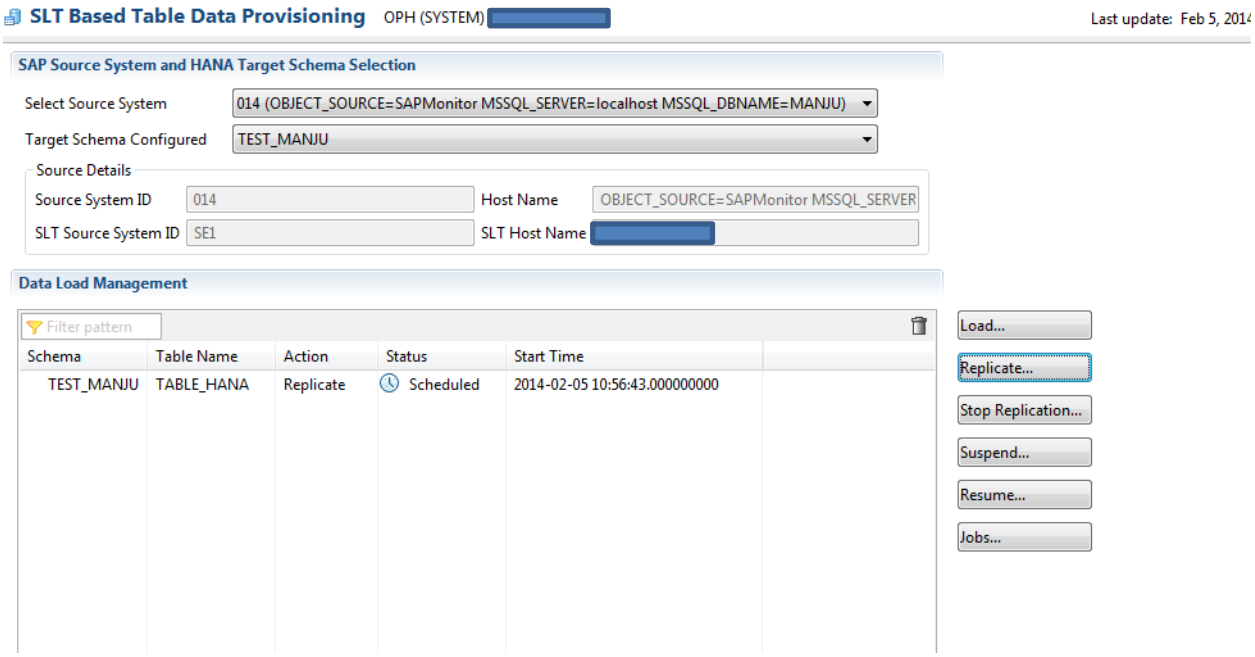
Use button Load and / or Replicate following window opens, select your source tables.

Here we are choosing TABLE_HANA table from our source system for replication.

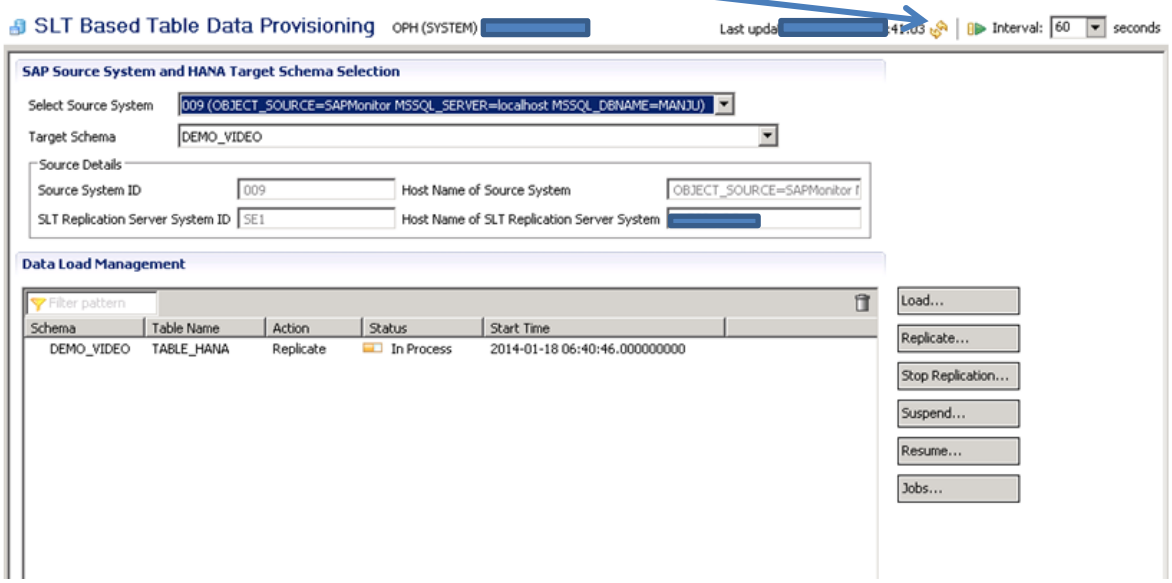


After selecting your tables click on finish. It means your job is scheduled .

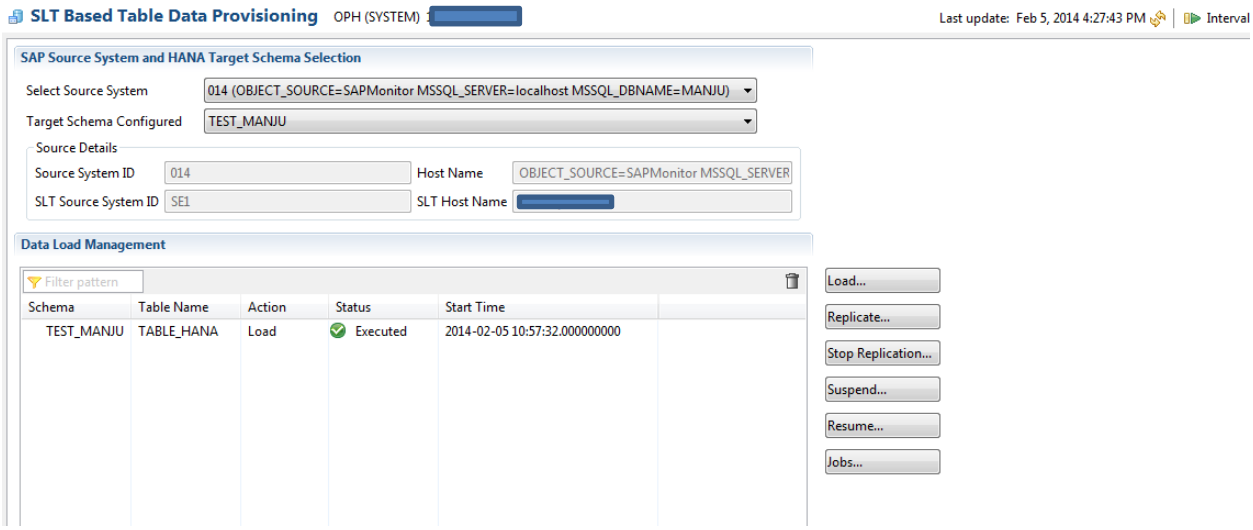
In the following screen shot you could see the Status as **"scheduled"**



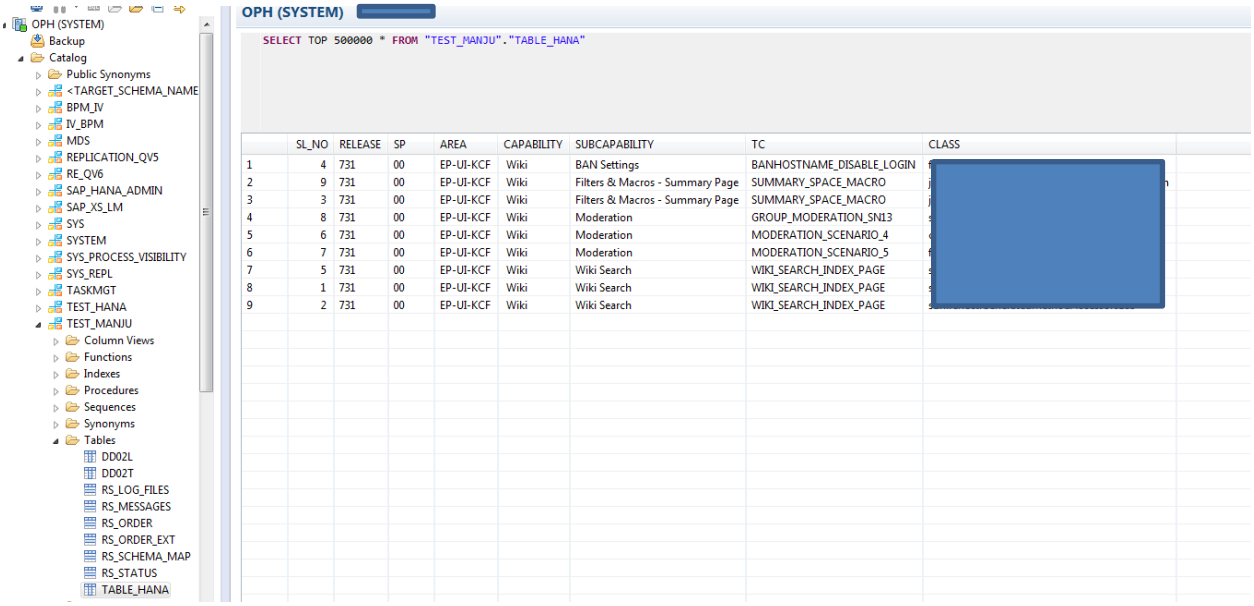
Click on refresh button(or F5 key) after some seconds status turns to **In process** , you could see in the following screen shot.



Again click on refresh , now your replication is done and status turns to **“Executed”**



Now open your table in the created schema (Schema name is same as configuration name)



Now you have successfully replicated the tables from source DB to HANA DB.

Information Sources

Web Sites

- SLT @ SAP Service Marketplace: http://service.sap.com/hana
- SLT @ SAP Help Portal: http://help.sap.com/hana
- SLT @ SCN: http://scn.sap.com/community/replication-server

SAP LT – important Documents and Links

- Neu SLT – Introduction Video
- SLT – Overview Presentation
- Installation Guide
- Security Guide
- Operations Guide
- How-To Guide „Advanced Replication Settings“ (see SAP Note 1733714)
- HANA & SLT Sizing;
- SLT Sizing Guide
- Important SLT Notes: see in SLT General Note 1605140

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