



POWER OF SIMPLICITY

Developer Manual – Automatic Bank Reconciliation

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Automatic Bank Reconciliation

Scenario

A Company “**Global Enterprises**” is a medium scale growing concern using Tally.ERP9. Their volume has been increasing tremendously over the past 2-3 years. They are on the lookout of automating certain systems out of which Bank Reconciliation is one which bothers them a lot. Their day to day bank transactions are numerous; doing Bank Reconciliation manually is a cumbersome and time consuming process. It consumes a lot of their productive hours to reconcile bank books with their company records. They have communicated with their Bank, Yes Bank who has agreed to give them a soft copy of their Bank Statements periodically in Excel format as shown below:

	A	B	C	D	E
1	Date	ChequeNo	Deposit	Withdrawal	Balance
2	4/10/2008	1234567		12000	-12000
3	4/12/2008	1231111	30800		18800
4	4/24/2008	3333333	16624		35424
5	4/30/2008	2345678		22968	12456

Requirement Statement

The Bank Statement received from Bank in Excel Format needs to be validated with Bank Books as per company records entered in Tally. The validation needs to be done for

- a) **Cheque Number** with **ChequeNo** Column in Excel
- b) **Cheque Amount** with **Deposit** and **Withdrawal** Amounts Column in Excel

The default Bank Reconciliation Report in Tally displays a list of unreconciled vouchers and allows the user to input a field **Bank Date** on which the corresponding entry has been effected by the Bank.

If both the above details **a** and **b** match, this indicates that the Amount has been cleared from the Bank and hence must be reconciled by adding corresponding Bank Date to the Voucher containing the matching Cheque Number and Amount in Bank Reconciliation Report.

Solution

Since the above needs to be automated and is unavailable in default Tally, a TDL Extension needs to be built to perform this automatically.

Following steps are required to automate Bank Reconciliation in Tally.ERP 9.

- I. External Data with the required fields must be gathered in a **Collection** using the Following Collection Attributes.

- a. **ODBC** – This Attribute is used to specify driver information and the path of the destination file.

Example:

```
ODBC : "{Driver=Microsoft Excel Driver(*.XLS)};  
DefaultDir=C:\Auto Bank Reco;  
DBQ=ExcelRecoFile.XLS"
```

- b. **SQL** – SQL Attribute is used to select all or relevant columns/ data from the Table or Sheet

Example:

```
SQL: "Select [Sheet1$].[ChequeNo],  
[Sheet1$].[Date] from [Sheet1$]"
```

- c. In both the above, wherever user defined values are required; variables need to be used and concatenated to build a SQL Statement as well as Driver & File Information.

Example:

```
ODBC: "Driver= " + ##DriverInfo + "; DefaultDir= "+  
+ ##DirPath + "; Dbq=" + ##FilePath
```

- II. The next step is to alter the Field which is used in Bank Reconciliation to set the Bank Clearance Date from the Collection, provided the following conditions satisfy

- a. **BankReco** variable value is yes which ensures that this operation is performed only in case of a Bank Reconciliation Report.
- b. **AutoReco** variable value is yes which ensures that the date from the Collection will be set automatically only if the Automatic Reconciliation option is enabled by the user. This is to give flexibility to the user.

- c. Validate the *Cheque Number in the Collection* with the *Cheque Number of the Voucher* in Tally arrived from the Narration using StringPart Function
 - d. Validate the Cheque *Withdrawal* and *Deposit Amount* in the Collection with the Bank *Debit* and *Credit Amount* within the Voucher.
- III. Option has been provided to allow Automatic as well as Manual Reconciliation by attaching a Button to Form Bank Recon and setting the variable AutoReco to negation of AutoReco.
- IV. Filter Button has been attached to Form Bank Recon allowing users to filter for a particular cheque no and enter dates manually.
- V. Also the Bank Reconciliation Format must be modified to incorporate the following changes:
 - a. Add a line at the top bearing *Balance as per company books*
 - b. Sort the default collection *Reconciliation Vouchers* in the order of *Debit Amounts* and subsequently in the order of *Voucher or Reco Dates*. This is done to group all Payments first and Receipts later.
 - c. Now add another line on the top bearing *Cheques Issued but not presented in the Bank*
 - d. Add a line bearing *Cheques Deposited but not cleared* if the *Debit Amount in the next object* being repeated *is not empty* and the *Debit Amount in the current object is empty*.

TDL Capabilities Used

- I. Usage of attributes **ODBC, SQL** etc.
- II. **UDF** – User Defined Fields
- III. **Set By Condition** Attribute