



POWER OF SIMPLICITY

Developer Manual – Automatic Backup

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Automatic Backup

Scenario

A Firm **Global Enterprises** using **Tally.ERP 9** needs an automatic backup feature within Tally.

Requirement Statement

Automatic Backup option is currently not inbuilt within Tally.ERP 9. This can be achieved by customizing the same.

Solution

In order to enable Automatic Backup, the following steps have to be adhered:

- I. An event at which the action **Backup Company** can be performed must be identified.

In our example, the backup process is initiated on the event of Selecting a Company. Further, the Event **On: Form Accept** within the Form performs the required action; in this case, Calling a Function.

Refer the following code snippet:

```
[#Form : CMP Select Action Form]

On : Form Accept : Yes : CALL : Backup Function
```

On accepting the Form i.e., on selecting the company, Function **Backup Function** is called.

II. Within the Function **Backup Function**,

- a. For generalization, **conditional execution** is required wherein user settings can be verified and acted upon accordingly. So based on the user setting, decision is taken whether to perform or not to perform the Back up operation.
- b. If Automatic Backup needs to be performed, Action **Backup Company** must be initiated on specifying the desired destination path, source directory, company name and number.
- c. Also, the default Backup Variable, **SVBackupPath** needs to be altered to the last backed up location so that in case of subsequent Restore, user can view the last backed up data.

Refer the following code snippet:

```
[Function: Backup Function]

Variable      : Backup Det Var: String

00 : IF      : ##EnableAutoBackup
01 :   IF      : ##AutoBackupPrompt
02 :     QUERYBOX      : "Backup Company ?":Yes:No
03 :     IF : $$LastResult
04 :       CALL      : Backup Company
05 :     ENDIF
06 :   ELSE      :
07 :     CALL      : Backup Company
08 :   ENDIF
09 : ENDIF

[Function: Backup Company]

01 : SET:BackupDetVar: @@DestPath + ", " + ##SVCurrentPath + ", " + ##SVCurrentCompany + +
    ", " + @@CoNumber
02 : LOG      : ##BackupDetVar
03 : BACKUP COMPANY : ", "      : ##BackupDetVar
04 : SET      : SVBackupPath : @@DestPath
```

Function **Backup Company** executes the Action **Backup Company** on gathering the required syntax information from the variables and formulae.

- III. Destination folder structure can be created by appending the Data Path specified by user along with subfolders for Machine Date and Time.

Refer the following code snippet:

```
[System: Formula]

DestPath      : ##DestinationPath + "\" + @@DateForm + "\" + @@TimeForm
CoNumber      : $$String:$CompanyNumber:5
DateForm      : $$String:$$MachineDate
TimeForm      : @@HrsForm + @@MtsForm

HrsForm       : If $$StringPart:$$MachineTime:0:2 CONTAINS ":" +
               Then $$StringPart:$$MachineTime:0:1 +
               Else $$StringPart:$$MachineTime:0:2

MtsForm       : if $$StringPart:$$MachineTime:0:2 CONTAINS ":" +
               Then $$StringPart:$$MachineTime:2:2 +
               Else $$StringPart:$$MachineTime:3:2
```

TDL Capabilities Used

- I. User Defined Functions
- II. Event – **On : Form Accept**
- III. Action – **Backup Company**