

Basic Version Routines

TEMENOS EDUCATION CENTRE

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TEMENOS
The Banking Software Company



After completing this learning unit, you will be able to:

- Explain the need for version routines
- Create different version routine

- **VERSION** is used to customize an application in T24
- Routines that are attached to the **VERSION** application are called Version Routines

- What values do version routines work with?
- Common variables used are defined in I_COMMON
- Different common variables initialized at different points in time

- Contains the ID of the currently opened record in any application
- Dynamic array
- When the record is closed or committed or authorized the value in this variable gets cleared

- Holds the currently opened record in any application
- Dimensioned array
- Defined in I_COMMON as DIM R.NEW(C\$SYSDIM)
- C\$SYSDIM also a common variable equated to 500

```
jBASE debugger->V ID.NEW
COMMON variables
ID.NEW                      : 111183
```

```
jBASE debugger->V R.NEW
COMMON variables
R.NEW(0)                    :
R.NEW(1)                    : CHAIT
R.NEW(2)                    : CHAITU
R.NEW(3)                    : CHAITANYA
R.NEW(4)                    :
R.NEW(5)                    : STERLING
R.NEW(6)                    : NUNGAMBAKKAM
R.NEW(7)                    : INDIA
R.NEW(8)                    :
R.NEW(9)                    :
R.NEW(10)                   : 1
R.NEW(11)                   : 100724
R.NEW(12)                   : 10
R.NEW(13)                   :
.....
.....

R.NEW(496)                  :
R.NEW(497)                  :
R.NEW(498)                  :
R.NEW(499)                  :
R.NEW(500)                  :
```

ID.NEW

111183

R.NEW

Mnemonic	TEST	
GB Short Name	CHAIT TEST	
GB Name 1	CHAITANYA TEST	
GB Street	STERLING ROAD	
GB Address.1	NUNGAMBAKKAM	
GB Town Country	CHENNAI	
GB Country	INDIA	
Sector	1000	***IndividualsSS
Account Officer	1	Implementation
Industry	1000	Private Person (Name)
Target	1	Private Client - Standard
Nationality	IN	India
Customer Status	1	Private Client - Standard
Residence	IN	India
Language	1	English
Company Book	GB-001-0001	R8 MODEL BANK
Cls Cparty	NO	
Override.1	Have you received Introductory Document/CUS*100 from 111178 RECEIVED	
Record Status	INAU	INPUT Unauthorised
Curr No	1	
Inputter.1	17_CHAITANYA_QFS_BROWSERTC	
Date Time.1	25 SEP 08 14:37	
Co Code	GB-001-0001	R8 MODEL BANK
Dept Code	1	

- Holds the ID of the unauthorized record if any for the currently opened record
- Dynamic array
- The ID of the live and unauthorized record will be the same

- Holds the actual unauthorized record if any for the currently opened ID
- Dimensioned array
- Defined in I_COMMON as DIM R.NEW.LAST(C\$SYSDIM)

ID.NEW

111183

ID.NEW.LAST

111183

R.NEW

Mnemonic	TEST	
GB Short Name	CHAIT TEST	
GB Name 1	CHAITANYA TEST	
GB Street	STERLING ROAD	
GB Address.1	NUNGAMBAIKKAM	
GB Town Country	CHENNAI	
GB Country	INDIA	
Sector	1000	***IndividualsSS
Account Officer	1	Implementation
Industry	1000	Private Person (Name)
Target	1	Private Client - Standard
Nationality	IN	India
Customer Status	1	Private Client - Standard
Residence	IN	India
Language	1	English
Company Book	GB-001-0001	R8 MODEL BANK
Cls Cparty	NO	
Override.1	Have you received Introductory Document/CUS*100 from 111178 RECEIVED	
Record Status	INAU	INPUT Unauthorised
Curr No	1	
Inputter.1	17_CHAITANYA_OFS_BROWSERTC	
Date Time.1	25 SEP 08 14:37	
Co Code	GB-001-0001	R8 MODEL BANK
Dept Code	1	

R.NEW.LAST

Mnemonic	TEST	
GB Short Name	CHAIT TEST	
GB Name 1	CHAITANYA TEST	
GB Street	STERLING ROAD	
GB Address.1	NUNGAMBAIKKAM	
GB Town Country	CHENNAI	
GB Country	INDIA	
Sector	1000	***IndividualsSS
Account Officer	1	Implementation
Industry	1000	Private Person (Name)
Target	1	Private Client - Standard
Nationality	IN	India
Customer Status	1	Private Client - Standard
Residence	IN	India
Language	1	English
Company Book	GB-001-0001	R8 MODEL BANK
Cls Cparty	NO	
Override.1	Have you received Introductory Document/CUS*100 from 111178 RECEIVED	
Record Status	INAU	INPUT Unauthorised
Curr No	1	
Inputter.1	17_CHAITANYA_OFS_BROWSERTC	
Date Time.1	25 SEP 08 14:37	
Co Code	GB-001-0001	R8 MODEL BANK
Dept Code	1	

- Holds the ID of the authorized record if exists for the currently opened record
- Dynamic array
- Enables to check whether the currently opened record has a authorized record

- Holds the actual authorized record of the currently opened record ID
- Dimensioned array
- Defined in I_COMMON as DIM R.OLD(C\$SYSDIM)

ID.NEW

111183

ID.NEW.LAST

ID.OLD

111183

R.NEW

Mnemonic	★	TEST
GB Short Name	★	CHAIT TEST
GB Name 1		CHAITANYA TEST
GB Name 2		
GB Street		STERLING ROAD
GB Address.1		NUNGAMBAKKAM
GB Town Country		CHENNAI
GB Post Code		
GB Country		INDIA
Relation Code.1		
Rel Customer.1		
Revers Rel Code.1		
Rel Deliv Op.1.1		
Role.1.1		
Role More In.1.1		
Role Notes.1.1		
Rel Reserv6.1		
Rel Reserv5.1		
Rel Reserv4.1		
Rel Reserv3.1		
Rel Reserv2.1		
Rel Reserv1.1		
Sector	★	1002 Staff

R.NEW.LAST

R.OLD

Mnemonic	TEST	
GB Short Name	CHAIT TEST	
GB Name 1	CHAITANYA TEST	
GB Street	STERLING ROAD	
GB Address.1	NUNGAMBAKKAM	
GB Town Country	CHENNAI	
GB Country	INDIA	
Sector	1000	**IndividualsSS
Account Officer	1	Implementation
Industry	1000	Private Person (Name)
Target	1	Private Client - Standard
Nationality	IN	India
Customer Status	1	Private Client - Standard
Residence	IN	India
Language	1	English
Company Book	GB-001-0001	R8 MODEL BANK
Cls Cparty	NO	
Override.1	Have you received Introductory Document/CUS*100 from 111178 RECEIVED	
Curr No	1	
Inputter.1	17_CHAITANYA__OFS_BROWSERTC	
Date Time.1	25 SEP 08 15:21	
Authoriser	17_CHAITANYA1_OFS_BROWSERTC	
Co Code	GB-001-0001	R8 MODEL BANK
Dept Code	1	

ID.NEW

111183

ID.NEW.LAST

111183

ID.OLD

111183

R.NEW

Mnemonic	TEST
GB Short Name	CHAIT TEST
GB Name 1	CHAITANYA TEST
GB Street	STERLING ROAD
GB Address.1	NUNGAMBAKKAM
GB Town Country	CHENNAI
GB Country	INDIA
Sector	1002 Staff
Account Officer	1 Implementation
Industry	1000 Private Person (Name)
Target	1 Private Client - Standard
Nationality	IN India
Customer Status	1 Private Client - Standard
Residence	IN India
Language	1 English
Company Book	GB-001-0001 R8 MODEL BANK
Cl's Cparty	NO
Record Status	INAU INPUT Unauthorised
Curr No	2
Inputter.1	17_CHAITANYA_OFS_BROWSERTC
Date Time.1	25 SEP 08 16:50
Co Code	GB-001-0001 R8 MODEL BANK
Dept Code	1

R.NEW.LAST

Mnemonic	TEST
GB Short Name	CHAIT TEST
GB Name 1	CHAITANYA TEST
GB Street	STERLING ROAD
GB Address.1	NUNGAMBAKKAM
GB Town Country	CHENNAI
GB Country	INDIA
Sector	1002 Staff
Account Officer	1 Implementation
Industry	1000 Private Person (Name)
Target	1 Private Client - Standard
Nationality	IN India
Customer Status	1 Private Client - Standard
Residence	IN India
Language	1 English
Company Book	GB-001-0001 R8 MODEL BANK
Cl's Cparty	NO
Record Status	INAU INPUT Unauthorised
Curr No	2
Inputter.1	17_CHAITANYA_OFS_BROWSERTC
Date Time.1	25 SEP 08 16:50
Co Code	GB-001-0001 R8 MODEL BANK
Dept Code	1

R.OLD

Mnemonic	TEST
GB Short Name	CHAIT TEST
GB Name 1	CHAITANYA TEST
GB Street	STERLING ROAD
GB Address.1	NUNGAMBAKKAM
GB Town Country	CHENNAI
GB Country	INDIA
Sector	1000 ***IndividualsSS
Account Officer	1 Implementation
Industry	1000 Private Person (Name)
Target	1 Private Client - Standard
Nationality	IN India
Customer Status	1 Private Client - Standard
Residence	IN India
Language	1 English
Company Book	GB-001-0001 R8 MODEL BANK
Cl's Cparty	NO
Override.1	Have you received Introductory Document/CUS*100 from 111178 RECEIVED
Curr No	1
Inputter.1	17_CHAITANYA_OFS_BROWSERTC
Date Time.1	25 SEP 08 16:21
Authoriser	17_CHAITANYA1_OFS_BROWSERTC
Co Code	GB-001-0001 R8 MODEL BANK
Dept Code	1

- Perform field level validation
- Default values into fields
- Routine name must be specified in the field `VALIDATION.FLD`
- Invoked on committing the record
- Can also be invoked once tabbed out of the field if it is a hot field

- Create a version for the **FUNDS.TRANSFER** application with the following fields

TRANSACTION.TYPE

DEBIT.ACCT.NO

DEBIT.CURRENCY

DEBIT.AMOUNT

DEBIT.VALUE.DATE

CREDIT.ACCT.NO

CREDIT.CURRENCY

- Set the field DEBIT.ACCT.NO as hot field
- Set the field DEBIT.CURRENCY as NOINPUT field

VERSION FUNDS.TRANSFER,TE8 (200910 Mode	
Records Per Page	1
Fields Per Line	1
Language Code.1	1 English
Field No.1	TRANSACTION.TYPE
Field No.2	DEBIT.ACCT.NO
Attribs.2.1	HOT.FIELD
Field No.3	DEBIT.CURRENCY
Field No.4	DEBIT.AMOUNT
Field No.5	DEBIT.VALUE.DATE
Field No.6	CREDIT.ACCT.NO
Field No.7	CREDIT.CURRENCY
No Of Auth	1
Noinput Field.1	DEBIT.CURRENCY

*Version routine to populate the debit currency

```
SUBROUTINE VERSION.ROUTINE
```

```
$INSERT I_COMMON
```

```
$INSERT I_EQUATE
```

```
$INSERT I_F.ACCOUNT
```

```
$INSERT I_F.FUNDS.TRANSFER
```

```
Y.ACCT.NO = R.NEW(FT.DEBIT.ACCT.NO) ; Y.ACCT.CUR = ''
```

```
FN.ACCOUNT = 'F.ACCOUNT' ; F.ACCOUNT = ''
```

```
CALL OPF(FN.ACCOUNT,F.ACCOUNT)
```

```
CALL F.READ(FN.ACCOUNT,Y.ACCT.NO,R.ACCT.REC,F.ACCOUNT,ERR1)
```

```
Y.ACCT.CUR = R.ACCT.REC<AC.CURRENCY>
```

```
R.NEW(FT.DEBIT.CURRENCY)=Y.ACCT.CUR
```

```
CALL REBUILD.SCREEN
```






```
END
```

```
RETURN
```

```
END
```

EB.API VERSION.ROUTINE (200910 Model Bank)	
Description	VERSION VALIDATION ROUTINE
Protection Level	None
Source Type	Basic
Curr No	1
Inputter.1	6_REENA
Date Time.1	11 JAN 10 08:55
Authoriser	1_INPUTTER_OFS_BROWSERTC
Co Code	GB-001-0001 200910 Model Bank
Dept Code	1 Implementation

VERSION FUNDS.TRANSFER,TEST (200910)	
Validation Fld.1	DEBIT.ACCT.NO
Validation Rtn.1	VERSION.ROUTINE

FUNDS. TRANSFER, TEST		FT/09279/HV5D9	(200910 Model Bank)
Transaction Type	*	AC	Account Transfer
Debit Acct No		15137	Tatiana
Debit Currency		USD	US Dollar
Debit Amount		20,000.00	
Debit Value Date		06 OCT 2009	
Credit Acct No		21121	Syndicata
Credit Currency		USD	

```
0011 DEBUG
jBASE debugger->C

DEBUG statement seen
0011 DEBUG
jBASE debugger->S

0012      Y.ACCT.NO = R.NEW(FT.DEBIT.ACCT.NO) ; Y.ACCT.CUR = ''
jBASE debugger->S

0013      FN.ACCOUNT = 'F.ACCOUNT' ; F.ACCOUNT = ''
jBASE debugger->V Y.ACCT.NO

      Y.ACCT.NO                : 15137
jBASE debugger->S

0014      CALL OPF(FN.ACCOUNT,F.ACCOUNT)
jBASE debugger->S

0015      CALL F.READ(FN.ACCOUNT,Y.ACCT.NO,R.ACCT.REC,F.ACCOUNT,ERR1)
jBASE debugger->V FN.ACCOUNT

      FN.ACCOUNT                : FBNK.ACCOUNT
jBASE debugger->S

0016      Y.ACCT.CUR = R.ACCT.REC<AC.CURRENCY>
jBASE debugger->S

0017      R.NEW(FT.DEBIT.CURRENCY) = Y.ACCT.CUR
jBASE debugger->V Y.ACCT.CUR

      Y.ACCT.CUR                : USD
```

 D:\SignOn\jboss-4.2.3.GA\server\default\conf

```
<category name='tcs'>  
  <priority value='DEBUG'/>  
  <appender-ref ref='CONSOLE'/>  
</category>
```

- Set the field ATTRIBS in **VERSION** to HOT.FIELD
- Hot fields are shown with  next to them.
- Automatically sends a validation request to the server on changing the value

- COMI holds the last input field value
- COMI is a Dynamic Array

VERSION		FUNDS.TRANSFER,TE\$ (200910 Mode
Records Per Page	1	
Fields Per Line	1	
Language Code.1	1	English
Field No.1	TRANSACTION.TYPE	
Field No.2	DEBIT.ACCT.NO	
Attribs.2.1	HOT.FIELD	
Field No.3	DEBIT.CURRENCY	
Field No.4	DEBIT.AMOUNT	
Field No.5	DEBIT.VALUE.DATE	
Field No.6	CREDIT.ACCT.NO	
Field No.7	CREDIT.CURRENCY	
No Of Auth	1	
Noinput Field.1	DEBIT.CURRENCY	

*Version routine to populate the debit currency

```
SUBROUTINE VERSION.ROUTINE
```

```
$INSERT I_COMMON
```

```
$INSERT I_EQUATE
```

```
$INSERT I_F.ACCOUNT
```

```
$INSERT I_F.FUNDS.TRANSFER
```

```
  Y.ACCT.NO = COMI ; Y.ACCT.CUR = ''
```

```
  FN.ACCOUNT = 'F.ACCOUNT' ; F.ACCOUNT = ''
```

```
  CALL OPF(FN.ACCOUNT,F.ACCOUNT)
```

```
  CALL F.READ(FN.ACCOUNT,Y.ACCT.NO,R.ACCT.REC,F.ACCOUNT,ERR1)
```

```
  Y.ACCT.CUR  = R.ACCT.REC<AC.CURRENCY>
```






```
  R.NEW(FT.DEBIT.CURRENCY)=Y.ACCT.CUR
```

```
  * BUILD.SCREEN needed only for CUI, ignored for BROWSER
```

```
  CALL BUILD.SCREEN
```

```
RETURN
```

```
END
```

FUNDS.TRANSFER,TEST		FT/09279/HV5D9		(200910 Model Bank)	
Transaction Type	*	AC	▼	Account Transfer	
Debit Acct No		15137		Tatiana	
Debit Currency		USD		US Dollar	
Debit Amount		20,000.00			
Debit Value Date		06 OCT 2009	 ▼		
Credit Acct No		21121		Syndicata	
Credit Currency		USD	▼		

```
0011 DEBUG
jBASE debugger->S
0012      Y.ACCT.NO = COMI ; Y.ACCT.CUR = ''
jBASE debugger->V COMI.
COMMON variables
      COMI                      : 15137
jBASE debugger->S
0013      FN.ACCOUNT = 'F.ACCOUNT' ; F.ACCOUNT = ''
jBASE debugger->S
0014      CALL OPF(FN.ACCOUNT,F.ACCOUNT)
jBASE debugger->S
0015      CALL F.READ(FN.ACCOUNT,Y.ACCT.NO,R.ACCT.REC,F.ACCOUNT,ERR1)
jBASE debugger->S
0016      Y.ACCT.CUR = R.ACCT.REC<AC.CURRENCY>
jBASE debugger->S
0017      R.NEW(FT.DEBIT.CURRENCY)=Y.ACCT.CUR
jBASE debugger->V Y.ACCT.CUR
      Y.ACCT.CUR                : USD
jBASE debugger->S
0018      CALL REBUILD.SCREEN
jBASE debugger->
```

- COMI – To default values in field in version validation routines.
- Though COMI is generally used for field validations, It is better to use COMI during commit phase as well

- BANK XYZ has some accounts as pyramid accounts. Entries should not be passed for any value date other than “Today” for these accounts for all FT transactions
- Developments : One Local Reference Field needs to be created in the Account application to indicate whether the account is a pyramid or not. Create a local reference field called ‘PYRAMID’ that can contain any one of the following 2 values only ‘Y’ or ‘N’
- Additional Information : When an account is created, the user needs to input a value into this field PYRAMID. When a FT transaction is input, check to see if the DEBIT ACCOUNT NUMBER is a PYRAMID type of account. If so, check if the value date entered is the current date, else default to the current date

- Invoked prior to committing a transaction in unauthorized stage
- Invoked after validation processing
- Can get invoked even when the record is put on hold
- Routines may be used for additional checking or override processing
- Attached in the field INPUT.ROUTINE in **VERSION** application

- COMI not available for Input Routines
- Values to be extracted from R.NEW
- ETEXT defined in I_COMMON used to store the error message
- STORE.END.ERROR is a subroutine used to display the error message
- ```
SYNTAX : ETEXT = <"ERROR MESSAGE">
 CALL STORE.END.ERROR
```
- AF, AV and AS are used to display the error message next to a field



- When a user commits a record in a version of the FUNDS.TRANSFER application, a check has to be made to see whether the Debit Account Currency and the Credit Account Currency are the same. If not, an error message “DEBIT AND CREDIT CURRENCY NOT EQUAL” has to be displayed
- Fields that need to be displayed as part of the version are

TRANSACTION.TYPE

DEBIT.ACCT.NO

DEBIT.CURRENCY

DEBIT.AMOUNT

DEBIT.VALUE.DATE

CREDIT.ACCT.NO

CREDIT.CURRENCY

| VERSION, FUNDS.TRANSFER, TES (200910 Mod |                  |
|------------------------------------------|------------------|
| Records Per Page                         | 1                |
| Fields Per Line                          | 1                |
| Language Code.1                          | 1 English        |
| Field No.1                               | TRANSACTION.TYPE |
| Field No.2                               | DEBIT.ACCT.NO    |
| Field No.3                               | DEBIT.CURRENCY   |
| Field No.4                               | DEBIT.AMOUNT     |
| Field No.5                               | DEBIT.VALUE.DATE |
| Field No.6                               | CREDIT.ACCT.NO   |
| Field No.7                               | CREDIT.CURRENCY  |
| No Of Auth                               | 1                |

\*Version routine to checks if the debit and credit currency are  
\*equal.

SUBROUTINE INPUT.ROUTINE

    \$INSERT I\_COMMON

    \$INSERT I\_EQUATE

    \$INSERT I\_F.FUNDS.TRANSFER

    Y.DEBIT.CUR = R.NEW(FT.DEBIT.CURRENCY)

    Y.CREDIT.CUR = R.NEW(FT.CREDIT.CURRENCY)

    IF Y.DEBIT.CUR NE Y.CREDIT.CUR THEN

        AF = FT.CREDIT.CURRENCY

        ETEXT = 'DEBIT AND CREDIT CURRENCY NOT EQUAL'

        CALL STORE.END.ERROR

    END

    RETURN

END

| EB.API INPUT.ROUTINE (200910 Model Bank) |                               |
|------------------------------------------|-------------------------------|
| Description                              | INPUT ROUTINE                 |
| Protection Level                         | None                          |
| Source Type                              | Basic                         |
| Curr No                                  | 1                             |
| Inputter.1                               | 6_INPUTTER                    |
| Date Time.1                              | 20 JAN 10 09:42               |
| Authoriser                               | 3_REENA_OFS_BROWSERTC         |
| Co Code                                  | GB-001-0001 200910 Model Bank |
| Dept Code                                | 1 Implementation              |

1











| VERSION, FUNDS.TRANSFER,TE9 (200910 Model Bank) |               |
|-------------------------------------------------|---------------|
| Input Routine.1                                 | INPUT.ROUTINE |

2

FUNDS.TRANSFER,TEST  (200910 Model Bank)

**✗ CREDIT.CURRENCY DEBIT AND CREDIT CURRENCY NOT EQUAL**

[Accept Overrides](#)

|                  |                                                                                     |                                          |                                                                                     |                                                                                     |
|------------------|-------------------------------------------------------------------------------------|------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Transaction Type |    | <input type="text" value="AC"/>          |    | Account Transfer                                                                    |
| Debit Acct No    |    | <input type="text" value="21105"/>       |                                                                                     | Tatiana                                                                             |
| Debit Currency   |    | <input type="text" value="USD"/>         |    | US Dollar                                                                           |
| Debit Amount     |                                                                                     | <input type="text" value="1.00"/>        |                                                                                     |                                                                                     |
| Debit Value Date |                                                                                     | <input type="text" value="06 OCT 2009"/> |  |  |
| Credit Acct No   |    | <input type="text" value="22233"/>       |                                                                                     | Standard Chartered Bank                                                             |
| Credit Currency  |  | <input type="text" value="AUD"/>         |  | Australian Dollars                                                                  |

```
jBASE debugger->S
0011 Y.CREDIT.CUR = R.NEW(FT.CREDIT.CURRENCY)
jBASE debugger->V Y.DEBIT.CUR
 Y.DEBIT.CUR : USD
jBASE debugger->S
0012 IF Y.DEBIT.CUR NE Y.CREDIT.CUR THEN
jBASE debugger->V Y.CREDIT.CUR
 Y.CREDIT.CUR : AUD
jBASE debugger->S
0013 AF = FT.CREDIT.CURRENCY
jBASE debugger->S
0014 ETEXT = 'DEBIT AND CREDIT CURRENCY NOT EQUAL'
jBASE debugger->V AF
COMMON variables
 AF : 13
jBASE debugger->S
0015 CALL STORE.END.ERROR
jBASE debugger->V ETEXT
COMMON variables
 ETEXT : DEBIT AND CREDIT CURRENCY NOT EQUAL
```

- Invoked at the authorization stage
- Routine are used to update local files
- Invoked after validation process
- Attached in the field AUTH.ROUTINE in **VERSION** application
- Invoked after a write is made to the buffer
- Call to F.WRITE should precede JOURNAL.UPDATE

- Once a record in a version of the **FUNDS.TRANSFER** application is authorized, the following details from the transaction need to be extracted and written on to a flat file named TEMENOS.TRAINING for interface purposes all delimited with a single space

DEBIT.ACCT.NO  
CREDIT.ACCT.NO  
DEBIT.VALUE.DATE  
DEBIT.AMOUNT  
DEBIT.CURRENCY

- ID of the record in the flat file should be the ID of the **FT** record



| VERSION, FUNDS.TRANSFER, TES (200910 Mod |                  |
|------------------------------------------|------------------|
| Records Per Page                         | 1                |
| Fields Per Line                          | 1                |
| Language Code.1                          | 1 English        |
| Field No.1                               | TRANSACTION.TYPE |
| Field No.2                               | DEBIT.ACCT.NO    |
| Field No.3                               | DEBIT.CURRENCY   |
| Field No.4                               | DEBIT.AMOUNT     |
| Field No.5                               | DEBIT.VALUE.DATE |
| Field No.6                               | CREDIT.ACCT.NO   |
| Field No.7                               | CREDIT.CURRENCY  |
| No Of Auth                               | 1                |

- Create a flat file under the HOME directory

```
jsh R10 ~ -->CREATE.FILE TEMENOS.TRAINING TYPE=UD
[417] File TEMENOS.TRAINING]D created , type = UD
[417] File TEMENOS.TRAINING created , type = UD
```

```
*AUTHORIZATION ROUTINE
SUBROUTINE AUTH.ROUTINE
 $INSERT I_COMMON
 $INSERT I_EQUATE
 $INSERT I_F.FUNDS.TRANSFER
 Y.FILE.NAME = "TEMENOS.TRAINING"
 Y.FILE.ID = ID.NEW
 OPENSEQ Y.FILE.NAME,Y.FILE.ID TO Y.FILE.PTR ELSE
 CREATE Y.FILE.PTR ELSE
 CRT "Unable to create record in file"
 END
 END
END
```

```
Y.STRING.TO.BE.WRITTEN = R.NEW (FT.DEBIT.ACCT.NO) : " " :
R.NEW (FT.DEBIT.CURRENCY)
Y.STRING.TO.BE.WRITTEN := " " : R.NEW (FT.CREDIT.ACCT.NO) : " " :
R.NEW (FT.DEBIT.VALUE.DATE)
Y.STRING.TO.BE.WRITTEN := " " : R.NEW (FT.DEBIT.AMOUNT) : " " :
R.NEW (FT.CREDIT.CURRENCY)

WRITESEQ Y.STRING.TO.BE.WRITTEN APPEND TO Y.FILE.PTR ELSE
 CRT "Unable to write to the file"



END

RETURN

END
```

|                                         |                               |
|-----------------------------------------|-------------------------------|
| EB.API AUTH.ROUTINE (200910 Model Bank) |                               |
| Description                             | AUTHORISATION ROUTINE         |
| Protection Level                        | None                          |
| Source Type                             | Basic                         |
| Curr No                                 | 1                             |
| Inputter.1                              | 7_REENA___OFS_BROWSERTC       |
| Date Time.1                             | 20 JAN 10 06:47               |
| Authoriser                              | 3_INPUTTER                    |
| Co Code                                 | GB-001-0001 200910 Model Bank |
| Dept Code                               | 1 Implementation              |

|                                                 |              |
|-------------------------------------------------|--------------|
| VERSION, FUNDS.TRANSFER,TE9 (200910 Model Bank) |              |
| Auth Routine.1                                  | AUTH.ROUTINE |

|                  |                                                                                         |                  |                     |
|------------------|-----------------------------------------------------------------------------------------|------------------|---------------------|
| FUNDS. TRANSFER  |                                                                                         | FT/09279/HV5D9   | (200910 Model Bank) |
| Transaction Type | AC                                                                                      | Account Transfer |                     |
| Debit Acct No    |  21105 | Tatiana          |                     |
| Currency Mkt Dr  | 1                                                                                       | Currency Market  |                     |
| Debit Currency   |  USD   | US Dollar        |                     |
| Debit Amount     | 20,000.00                                                                               |                  |                     |
| Debit Value Date | 06 OCT 2009                                                                             |                  |                     |
| Credit Acct No   |  21121 | Syndicata        |                     |
| Currency Mkt Cr  | 1                                                                                       | Currency Market  |                     |
| Credit Currency  |  USD | US Dollar        |                     |

```
LIST TEMENOS.TRAINING
```

```
TEMENOS.TRAINING
```

```
FT09279HV5D9
```

```
1 Records Listed
```

```
File TEMENOS.TRAINING , Record 'FT09279HV5D9'
```

```
Command->
```

```
0001 21105 USD 20000.00 20090610 21121 USD
```

- Once a record in a version of the CUSTOMER application is authorised, the following details from the transaction need to be extracted and written on to a flat file named TEMENOS.XX.CUS.INTERFACE for interface purposes.
  - XX – Is your name
    - ID of the record in the flat file needs to be the Customer ID
    - Following field's values need to be stored in the flat file all delimited with a single space
      - Mnemonic
      - Sector
      - Nationality
      - Language
- The above operation needs to be done only if the record being authorised is a new customer record



- Can control the number of authorisers
- Allowed values - 0, 1, or 2
- AUTH.NO – common variable

- PGM.VERSION – holds the version name
- R.VERSION – Version record

- QUIZ

In this learning unit/course, you learnt about the basic version routines in T24

You will now be able to:

- Explain the need for version routines
- Create different version routines

# Thank You

## TEMENOS EDUCATION CENTRE

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