

TEMENOS INTRODUCTION



- Temenos is a organization which builds software for the banking /finance sector.
- Temenos' vision is to provide financial institutions, of any size, any sector and anywhere in the world, the software to thrive in the digital banking age.
- 3,000 banks in 150 countries.
- 41 of the top 50 banks in the world run Temenos.
- 3rd largest European software company.
- Product Details
 - Core Banking Temenos Transact
 - Digital Banking Temenos Infinity
 - Payments Temenos Payment Hub
 - Investment Banking Temenos Multifonds

T24 INTRODUCTION

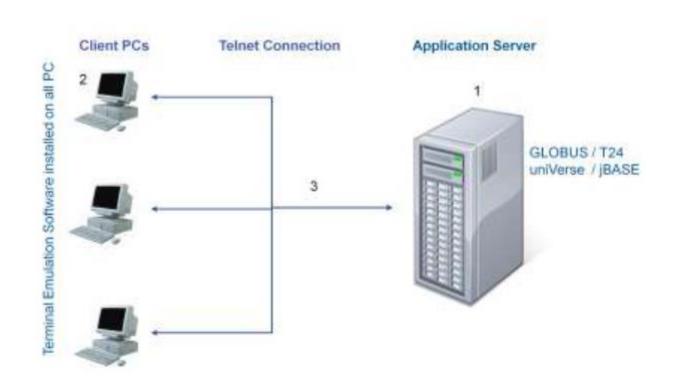


- Evolution of T24
 - Globus –
 - Globus Desktop –
 - T24 Browser (R 4 to R 17....)
- > T24 was previously called as GLOBUS. The very early implementations of GLOBUS had a simple client-server architecture. The database that was used previously was universe. It is an IBM's product.
- ➤ In a typical client-server architecture, GLOBUS and universe was installed on one Server called the Application Server.
- ➤ In this type of an architecture, the clients PCs had to use a terminal emulation software to access GLOBUS. A terminal emulation software will allow the users access to a text terminal and all its applications such as command line interfaces(CLI) and text user interface applications through telnet, ssh, or dial-up. There are lot of terminal emulation software available like putty, reflection etc.
- ➤ All client machines connect to the GLOBUS Server using a telnet protocol
- > This character User Interface is also called as Classic. Though this type of an architecture was used in the initial stages, this architecture is not completely washed away, you can still work with the Character User Interface of T24



T24 Architecture - Globus





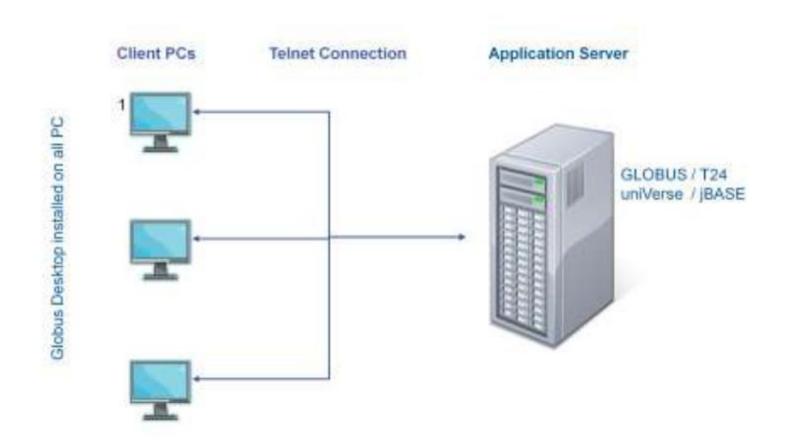
T24 GLOBUS DESKTOP



- From 1995, GLOBUS moved away from its classic user front end to a GUI based front end
- The GUI based front end was called the GLOBUS Desktop. It was a client software written in Visual Basic
- In this architecture too GLOBUS with its database universe or jBASE used to exist on a server along (with the operating system Windows or Unix).
- The GLOBUS Desktop had to be installed on all client machines and connected to the server via a telnet connection
- It doesn't hold any business logic
- R7 and above do not have support for Globus Desktop. You should either use the Classic Interface or a web browser to access T24

T24 Architecture – Globus Desktop





T24 BROWSER ARCHITECTURE



- > T24's architecture changed drastically from release R04. A web browser software like IE or Mozilla Firefox can now be used as the User Interface
- ➤ This change, introduced a lot of new layers to the T24's architecture. From release R4 onwards, Globus was renamed as T24 due to its massive improvement in the technology front
- > T24 stands for Temenos 24. 24 denoted 24 hour non stop processing. Along this time, T24 started working on a front end known as T24 Browser
- ➤ T24 Browser is an Intranet based browser solution, which was initially designed as an accompaniment to the existing GLOBUS Desktop software. It was not a replacement for Desktop then, but rather a complementary product that offers basic functionality like contract capture and enquiries, needed for large-scale implementations without the need to install software on client PCs
- The client software used to access T24 can be any T24 Browser compliant browser. You can use Internet Explorer, Mozilla Firefox etc as a client. This has to be installed on all client PCs
- ➤ The Web Server layer can hold one or more web servers. A Web Server will serve the client. Any request coming from a client will be processed by the Web Server. The Web Server receives the request from the client and forwards it to the T24

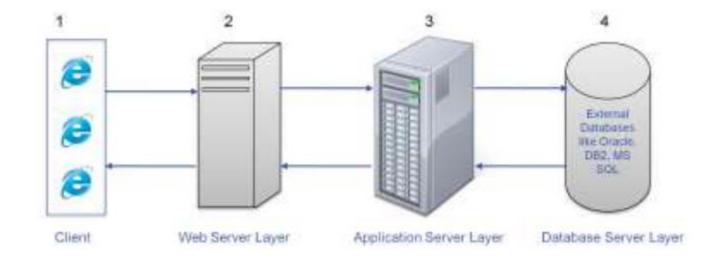
T24 BROWSER ARCHITECTURE



- ➤ Application Server. It also sends back the processed response to the client. Like the Web Server Layer, the T24 Application Server Layer can have one or more T24 Application Servers. It will receive the requests from the Web Server, processes it and sends back a response to the Web Server. Each of the T24 Application Server will have jBASE installed because it provides the run-time for T24
- > The Database Server Layer is where all the T24 data is stored.

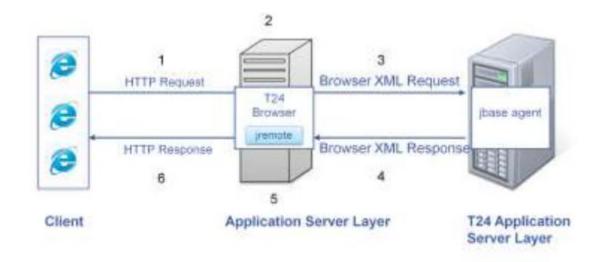
T24 Architecture - Browser





Message/Data Flow in T24





Message/Data Flow in T24



- > From the web browser to the App Server the message is sent as a HTTP Request.
- > T24 Browser transforms HTTP request to Browser XML request.
- > jremote sends the Browser XML request to jbase agent, jbase agent sends the Browser XML request to T24. Finally T24 processes the request
- > T24 builds BROWSER XML response and passes it on to jbase agent and jbase agent sends the response to jremote
- jbase agent sends the Browser XML response to jremote, jremote sends the Browser XML response to T24 Browser
- > T24 Browser converts the Browser XML response to a HTTP response

T24 APPLICATION



- Basically T24 Consists of the Following through which the application are been build.
 - Versions
 - Enquiries
 - Reports
- Applications in T24 are broadly classified into three FILE types.
 - INT
 - FIN
 - CUS

VERSION



- ✓ Version is a customised /user defined screens and can be created for any application in T24.
- ✓ Can be created for any application in T24
- ✓ Catalogued in VERSION application
- ✓ The format of the ID for the VERSION application is T24ApplicationName, VersionName
- ✓ Using a version you can input records , only when all the mandatory fields of the application are part of your version.
- ✓ The number of authorizers can be set to 0,1 or 2 in a version
- ✓ Special field properties like NOINPUT, NOCHANGE, MANDATORY can be set using versions.
- ✓ Rekey field in VERSION enables enhanced verification by the authorizer in the Banking System.
- ✓ Allows you to default values in fields.
- ✓ Allows you to hide non mandatory information.



ENQUIRY



- ✓ Reports are a crucial aspect of any business for analysis and future business predictions.
- ✓ ENQUIRY is an in-built T24 Report Designing Tool
- ✓ An enquiry is a query that is executed to fetch data from the database and display the results in a user defined format.
- ✓ It Is used to design reports that enable users to drill down and filter information, in accordance with their needs
- ✓ ENQUIRY application is used to create reports in user defined formats



Login



MURUGAN1 Last signed on 03 FEB 2017 at 14:15 with 0 attempt(s)
Help Tools Sign Off
▷ User Menu
▶ Admin Menu
▶ Role Based Home pages
▷ Sample Commitment Loan menu
Corporate LO





Menu

- Easy navigation
- No need to remember application names or commands
- Useful when links to perform work are readily available
- Role based pages make implementation easy for the bank
- Display only relevant links and thereby control access
- Link to applications, versions or enquiries that the user can choose from
- Menus are created using HELPTEXT.MENU application
- Higher level grouping of menus can be done using HELPTEXT.MAINMENU or HELPTEXT.MENU application







Log Out



When you press signoff link you come out of T24









Initial screen with menu buttons



- 1. Versions/input screens are used to input/amend information
- 2. Each versions may contain one or many tabs which themselves are separate versions only.



Command Line in Browser Mode

Another option in the command line

Syntax <Application Name> <Function> <Record ID> Example: CUSTOMER I 129018

More Actions ... **▼** 🔽 🐧 CUSTOMER 129018 (Model Bank R14-AMR) ALEXP Mnemonic ALEX **GB Short Name** (Model Bank R14-AMR) CUSTOMER 129018 10 Alex Paul GB Name 1 GB Name 2 7 GB Street GB Address.1 GB Town Country **GB Post Code GB Country** CUSTOMER 129018 (Model Bank R14-AMR) Relation Code.1 Rel Customer.1 X ISD.C.CODE INPUT MISSING X MOB.NUM INPUT MISSING Reserved 06 Reserved 05 Reserved 04 More Actions ... Reserved 03 Reserved 02 (Model Bank R14-AMR) CUSTOMER Reserved 01 2Y7617 Isd C Code Txn Complete: 129018 10:54:21 06 FEB 2017 CUSTOMER 8760523456 Mob Num

Icons placed in versions



Icon Button	Purpose	
	Used for committing the deal/txn	
?~	Used for validating the txn/deal	
	Used for placing a contract on hold	
	Used for deleting a deal/record	
~~	Used for authorizing a record/txn	
XV	Reverse a deal from the live file	
	Verifies a deal	
1	Return to application screen	
10	Help button	
•	Drop down list box with down arrow	
©	Selection Criteria	



Icons placed in versions



Icon Butto	on	Purpose
	1	Expand Multi Value fields
(1	-	Delete Multi Value field
	*	Indicates mandatory fields. Value for this field is compulsory for committing the deal/txn
5	00	Hotvalidatefield
(!		Calendar
		Yes or No field tick means yes. Empty means no
•	✓	Used for editing a contract/record
	<u>, </u>	View a contract/record
•	<i>2</i>	Perform an action on the contract
	<u>_</u>	Used for a new deal
Icon Butto	on	Purpose
	2	Expand Sub Value fields
	8	Frequency Control



Function Used in T24



Function code	Function
Α	Authorize
2	IInd Authoize
В	Batch
С	Сору
D	Delete
E	Edit
F	Not available
Н	History

Function code	Purpose		
I	Input		
L	List		
P	Paste		
Q	Audit		
R	Reverse		
S	See		
V	Verify		

Command Line in browser mode

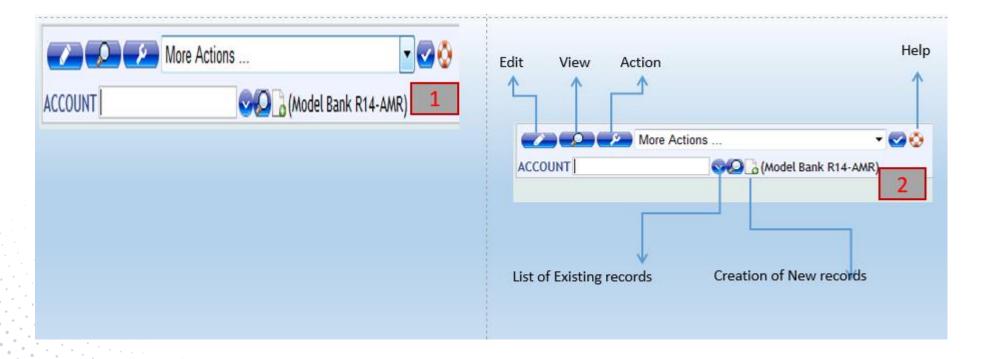


Useful to super users and Administrators

Type the task in the command line and click to execute it

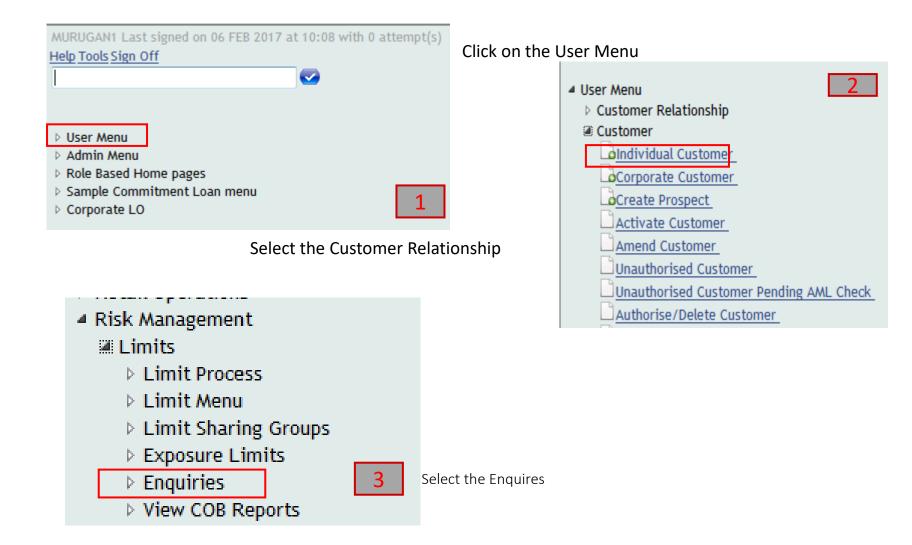
Syntax: <Application Name>

Example: ACCOUNT



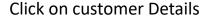


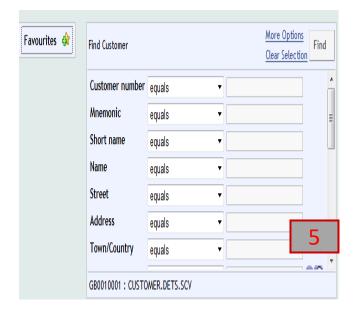
Navigating through Menu

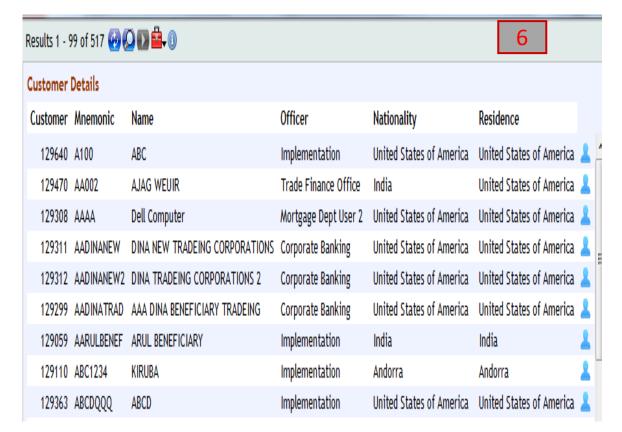


Navigating through Menu







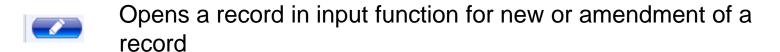


Selection Criteria

Accessing / Creating a record

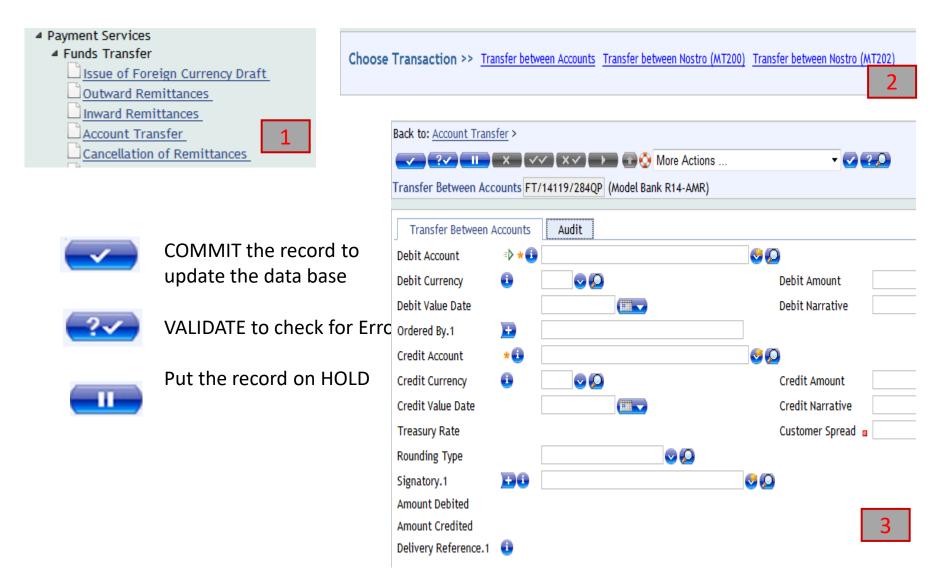
Accessing a record in an Application with functions from browser buttons





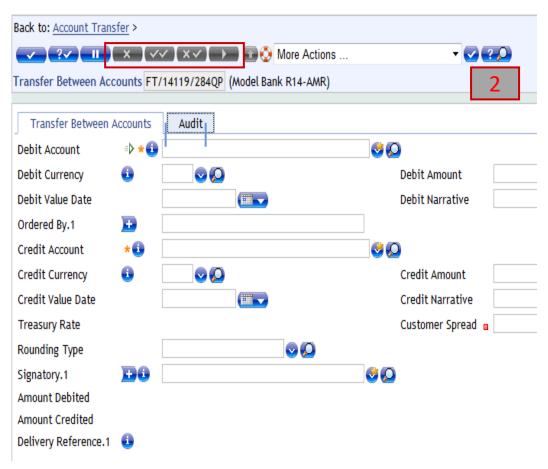
Opens a record in see function

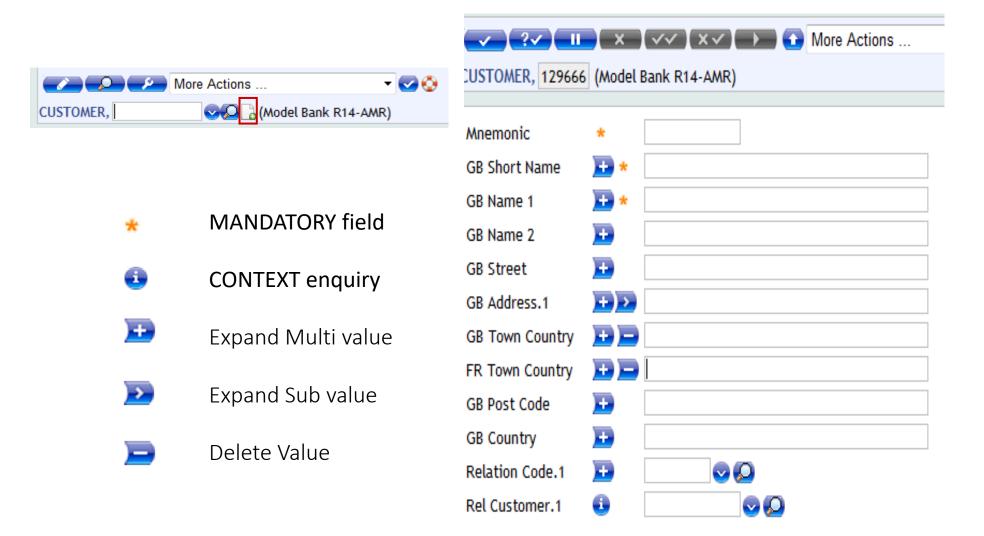
Opens a record with authorise, delete, reverse, verify function



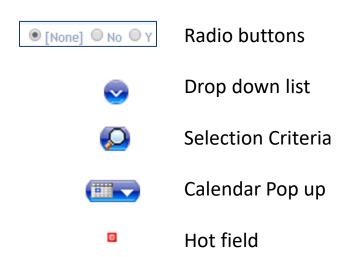


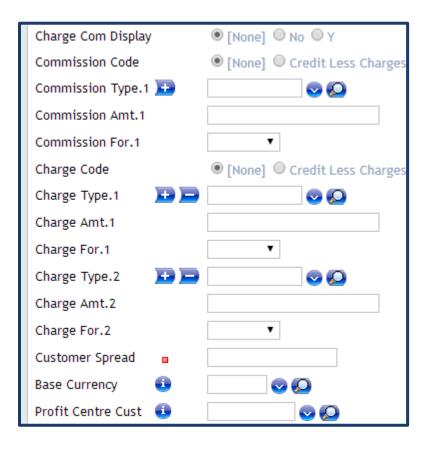






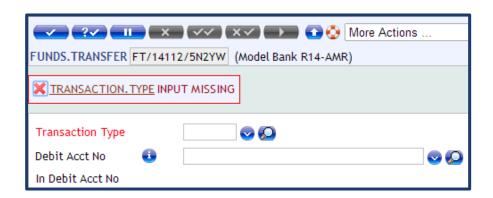






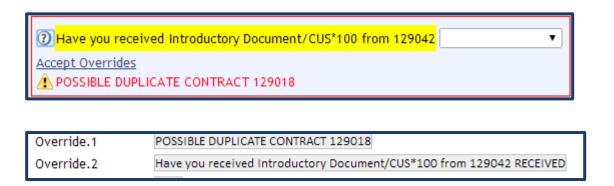
MESSAGES

- Message in T24 can be Errors or Overrides
 - Displayed when committed/validated
 - Field names and error text displayed
 - Record cannot be committed without rectification
 - Clicking on the message takes you to the respective field to correct the input.
 - ✓ Error Message Occurrence
 - Due to data not being inputted in mandatory fields.
 - Due to incorrect data input.



MESSAGES

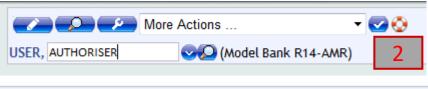
- Overrides Messages
 - √ Warning messages
 - Highlighted when record is committed
 - Can go further, only if overrides are duly accepted
 - Details of overrides and who approved stored in Audit trail



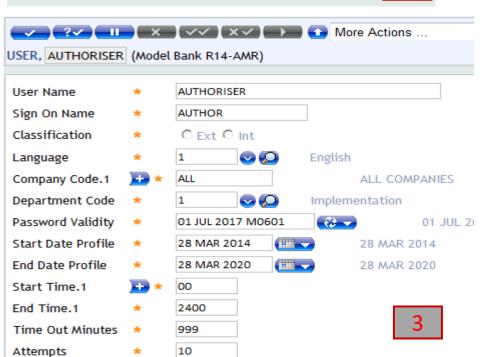
Copying Records



1. Type USER in the Command Line

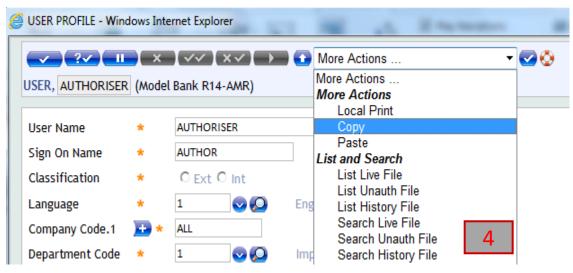


2. Open Authoriser record in input mode

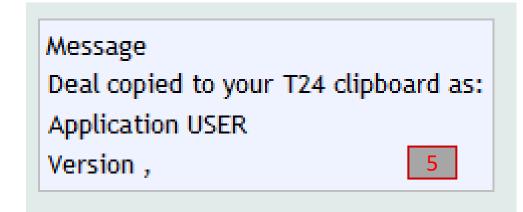


3. Record is opened

Copying Records



4. From the displayed User select Copy in More Actions drop down. And press Go button



is copied.

Ver Name

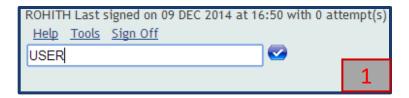
* AUTHORISER

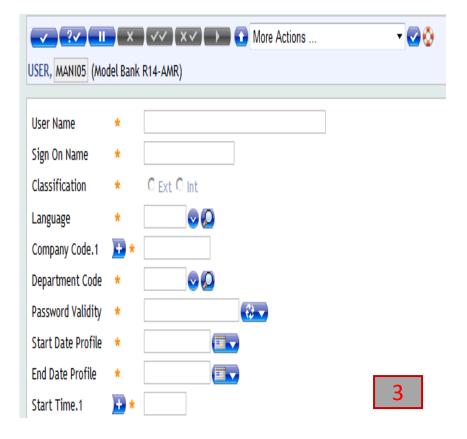
Sign On Name

* AUTHOR

5. System generated message as the Deal

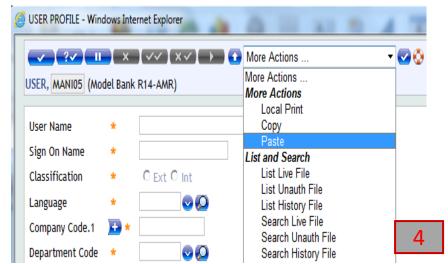
Pasting Data



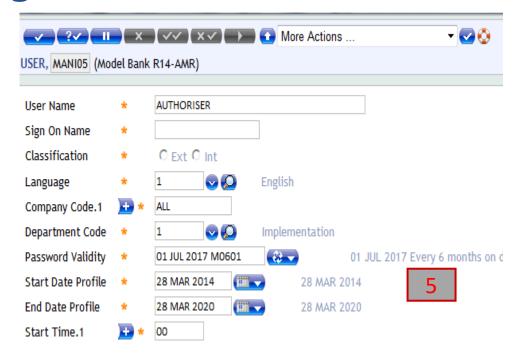




- 1. Enter the application USER.
- Type any new ID which you want to create.
- 3. Click on the more actions and select Paste.



Pasting Data





5. Remove user name and give your user name and change the start date profile as today's date and commit

→ ? ✓ Ⅱ	×	√ ✓ × ✓ →	Moi	re Actions						
USER, MANI05 (Model Bank R14-AMR)										
,		,								
User Name	*	MANI05								
Sign On Name	*	MAHA01								
Classification	*	C Ext € Int								
Language	*	1	English							
Company Code.1	*	ALL		ALL COM	PANIES					
Department Code	*	1	Implem	entation						
Password Validity	*	01 JUL 2017 M0601	₩ 🗸		01 JUL 2017					
Start Date Profile	*	06 FEB 2017		06 FEB 20)17					
End Date Profile	*	28 MAR 2020		28 MAR 2	020					
Start Time.1	*	0								
End Time.1	*	2400			1					
Time Out Minutes	*	999		6						
Attempts	*	9								

6. Commit the deal. You'll be able to see the Txn Complete.

Deal menu Options - LIST and SEARCH

Two options that can be used to search files

LIST to list everything

FIND to list as per selection

Selection operands for FIND option are

Equals

Greater than

Less than

Between

Contains

Begins with

✓ Does not begin with

Matches

Not equal to

Greater than or equals

Less than or equals

Not Between

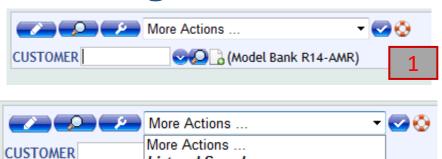
Not Containing

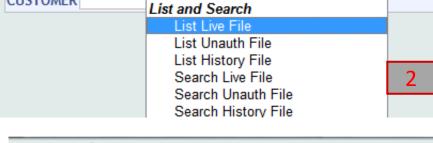
Ends with

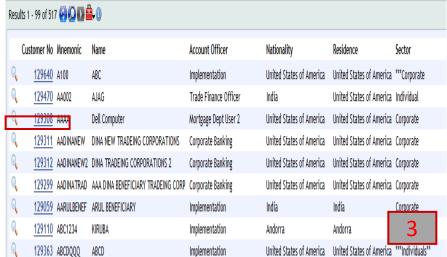
Does not end with

Both options search on Live, Unauthorised and History Files

Listing Live records





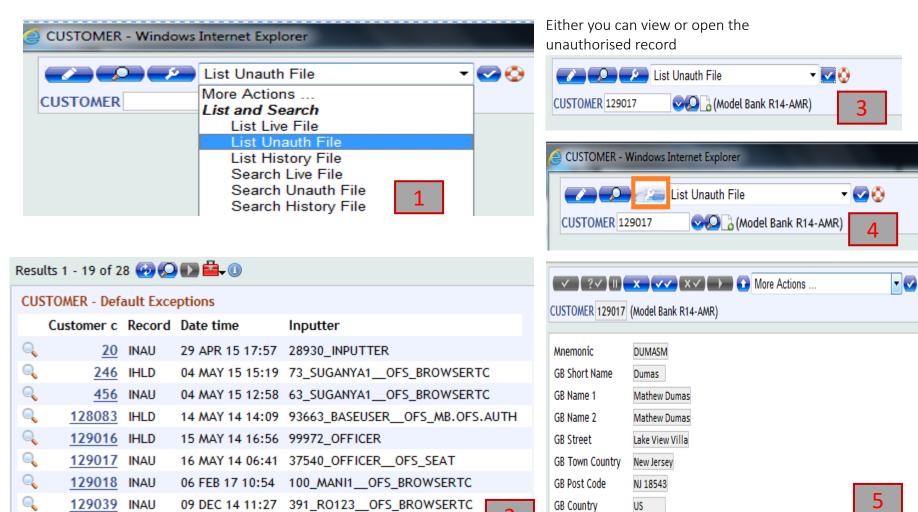




Listing Unauthorised record

09 DEC 14 16:36 391_R0123__OFS_BROWSERTC

129042 INAU

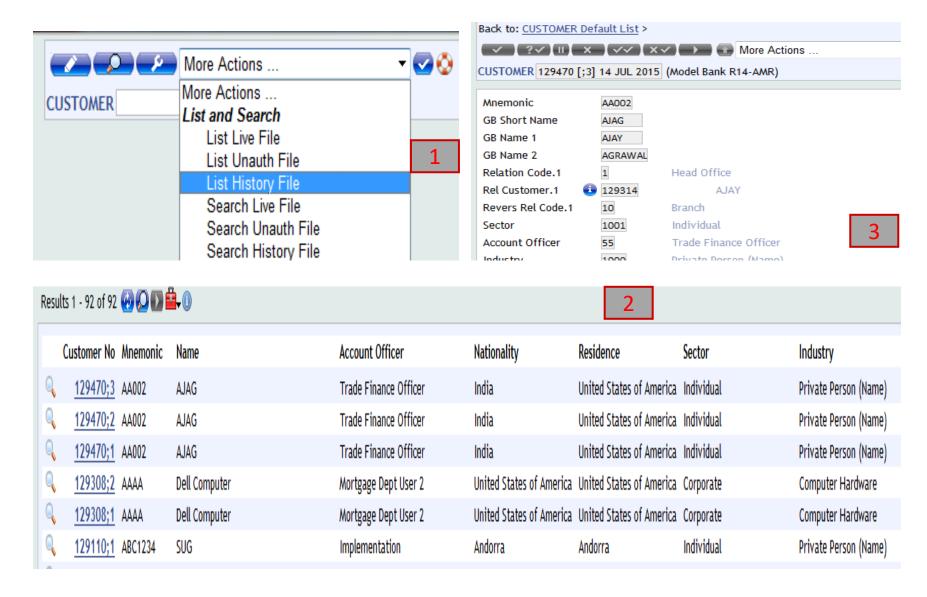


Either you can delete or authorize the unauthorized record

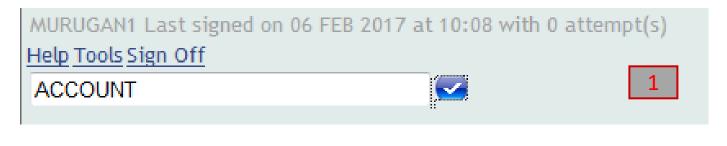
1001 Individual

Sector

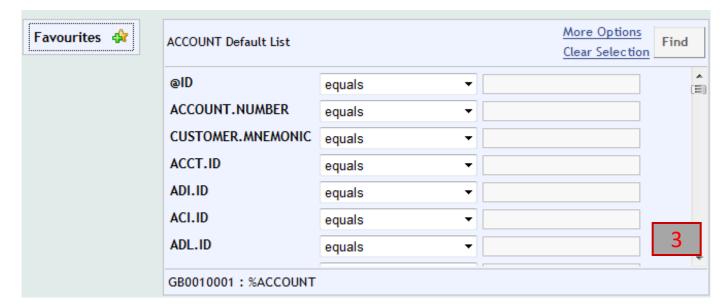
Listing History record



Searching a live file



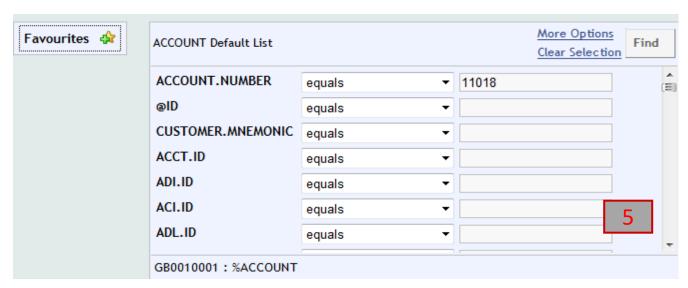




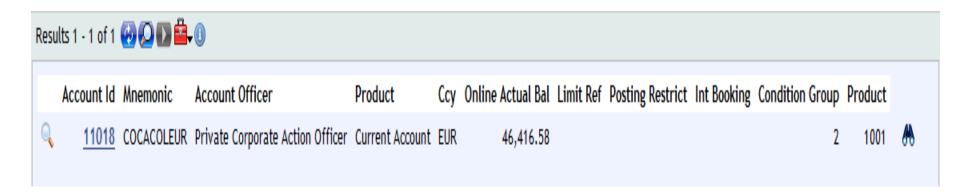
You can press Find button or you can give value to selection criteria to open the live file

Searching a live file

	Account Id	Mnemonic	Account Officer	Product	Ccy	Online Actual Bal	Limit Ref
Q	66575	THOMRECAD	Corporate Loan Supervisor	Current Account	CAD	0.00	
Q	11002	COCACOLCHF	Private Corporate Action Officer	Current Account	CHF	-963.33	
Q	11509	BRANSONCHF	Private Corporate Action Officer	Current Account	CHF	-1,689.95	
Q	13323	GENMOTOCHF	Treasury Dealers Manager	Current Account	CHF	-899,538.19	
Q	14028	CITIGROCHF	Credit Manager	Current Account	CHF	0	
Q	14378	MICROSOCHF	Private Corporate Action Officer	Current Account	CHF	-871,037.53	
Ų	66419	CORPACC3	Trade Finance Manager	Current Account	CHF	0	
Q	66559	THOMRECHE	Corporate Loan Supervisor	Current Account	CHF	0	
Q	67083	HEWWILLCHF	Private Corporate Action Officer	Current Account	CHF	0	
Q	67091	GWARDCHF	Private Corporate Action Officer	Current Account	CHF	0	
Q	<u>68551</u>	WILLNORCHF	Treasury Dealer	Current Account	CHF	0	
Q	10968	BUFFETEUR	Private Corporate Action Officer	Current Account	EUR	1,662.39	4
Q	11018	COCACOLEUR	Private Corporate Action Officer	Current Account	EUR	46,416.58	4

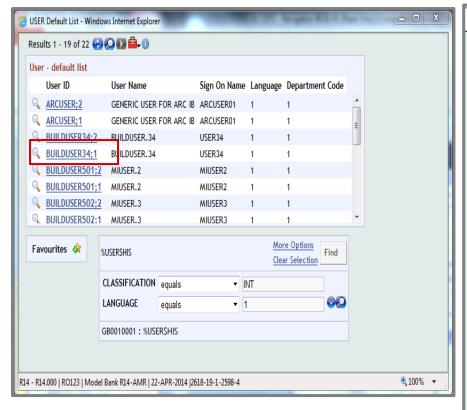


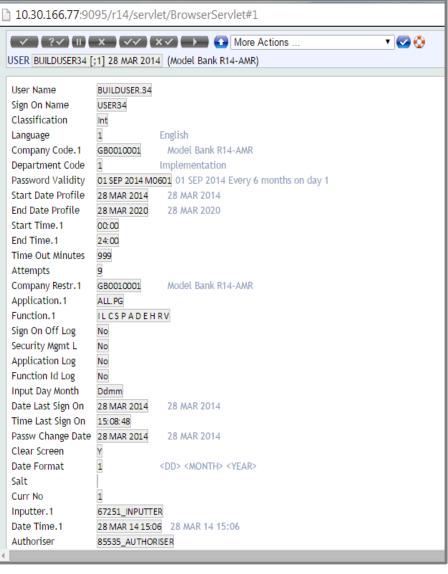
Selecting a live file



You can either view or open the record for further amendment and authorisation.

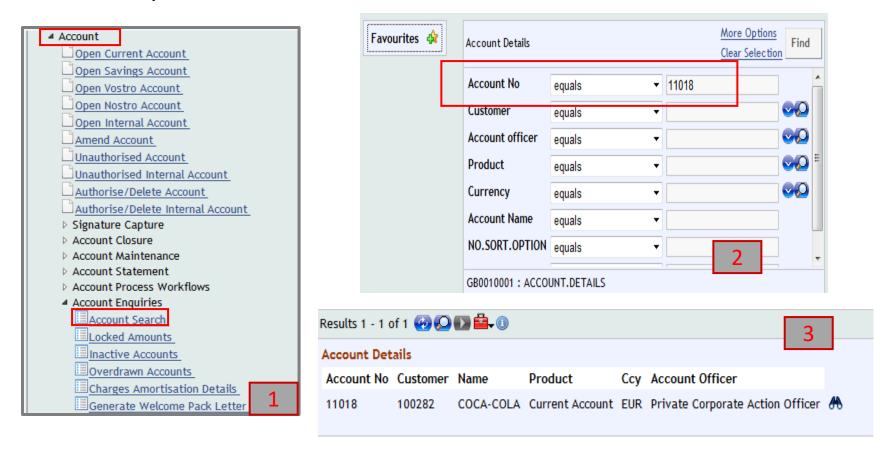
Selecting History record





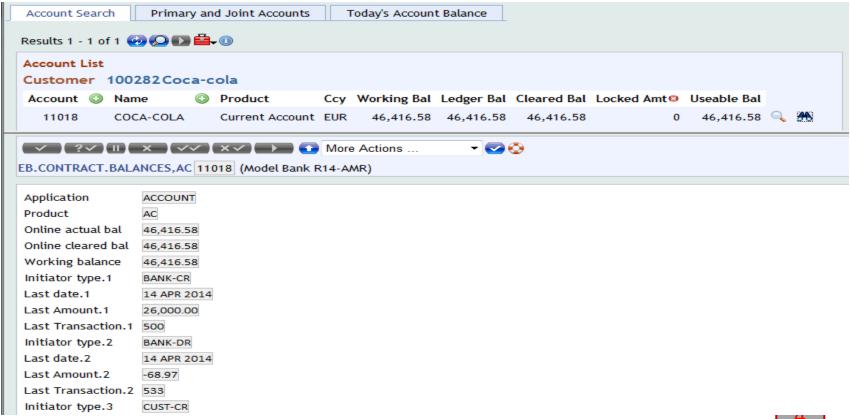
Enquiries

- Enquiry presents select information on line in pre defined form
 - ✓ List accounts and loans of a Customer with outstanding balance
 - Enquiries are available under Menus



Enquiries

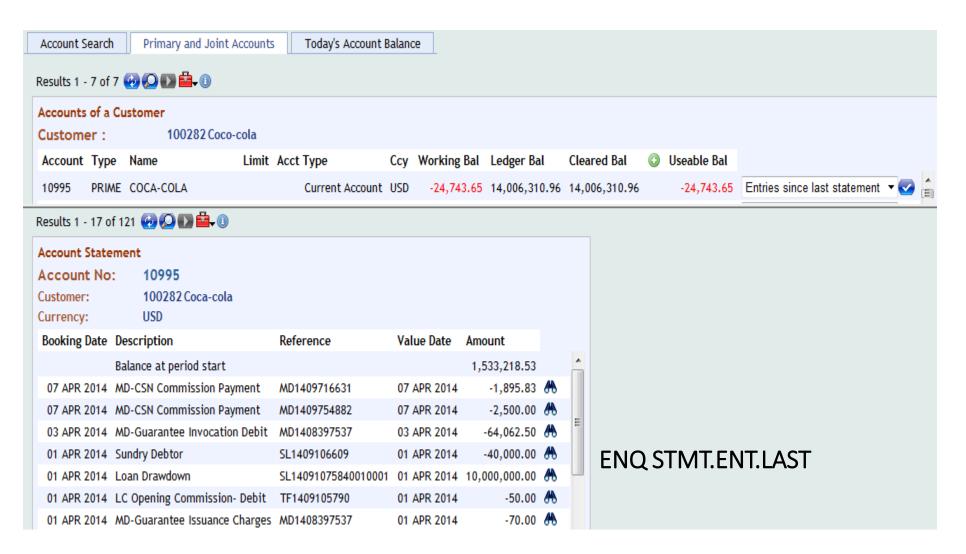
- Enquiry presents select information on line in a predetermined form.
- Context sensitive enquiries available for the application.



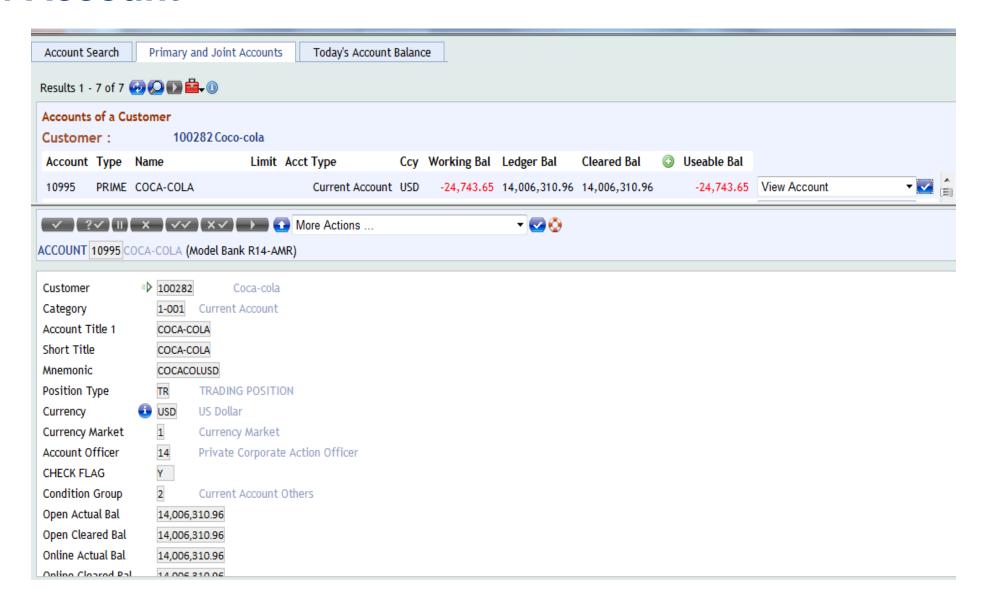
Statement entries today



Entries since last statement



View Account

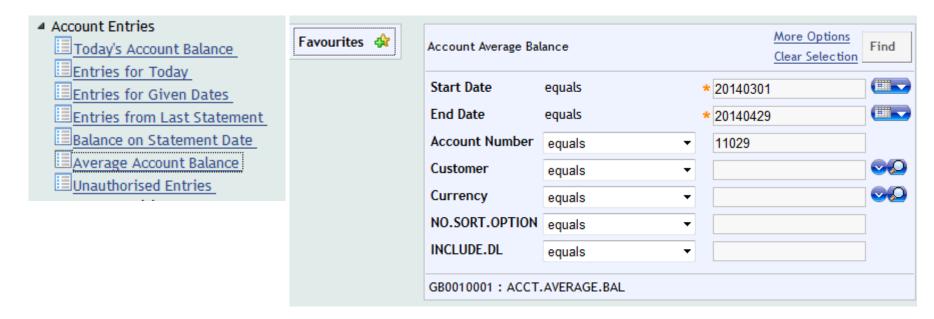


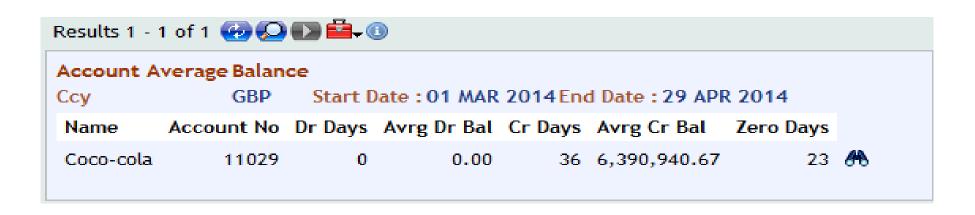
Today's Account Balance



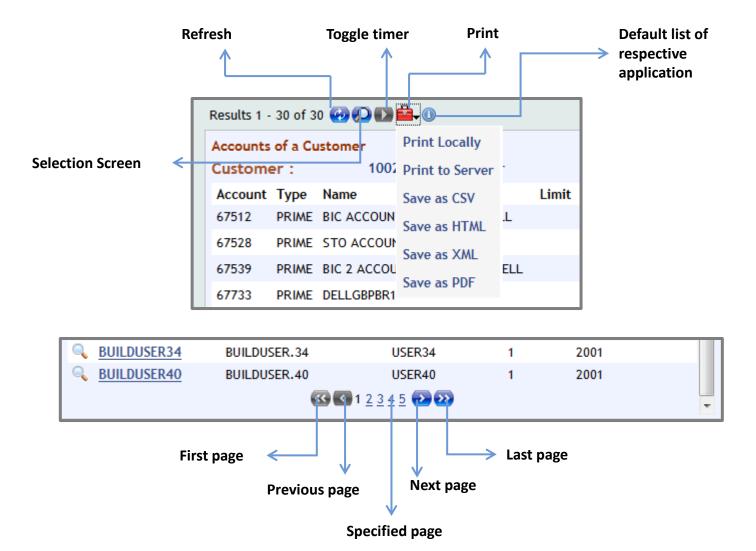
ENQ ACCT.BAL

ENQ ACCT.AVERAGE.BAL





Enquiries - Buttons



Saving output in other formats

The Search / Enquiries result can be opened or saved as

√ CSV

any

Output will be saved as Microsoft Excel Comma Separated File in opted location

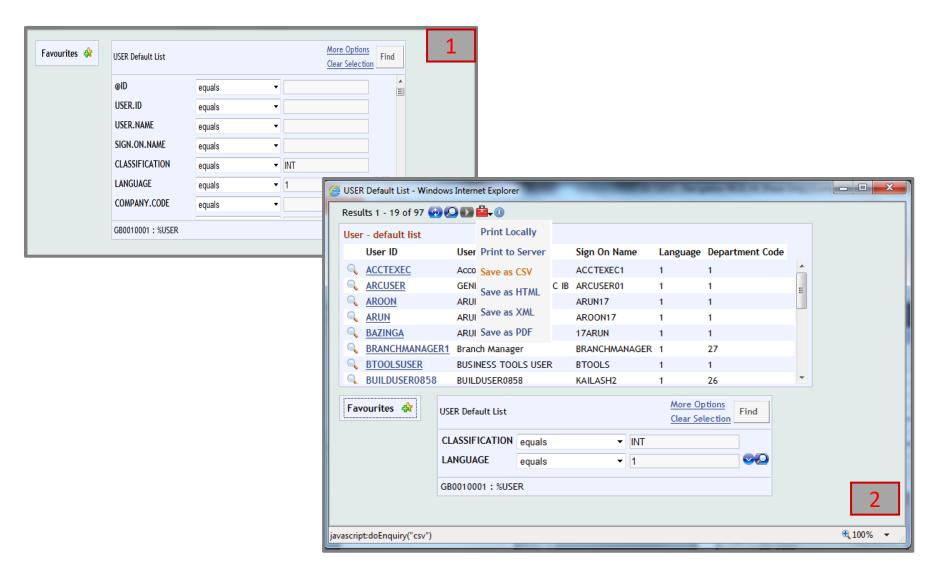
✓ HTML

Output will be saved as ".html" file in any opted location

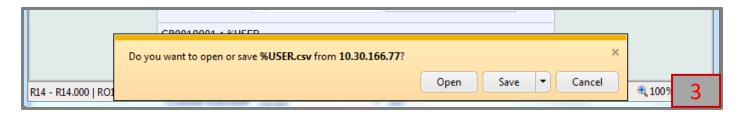
√ XML

Output will be saved as "XML" file in any opted location

Opening/ Saving as CSV

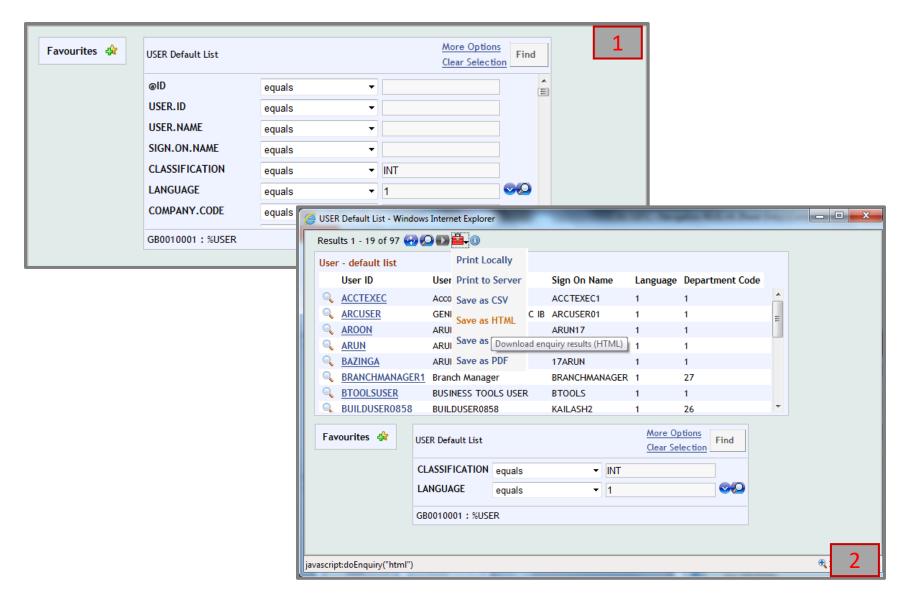


Opening/ Saving as CSV

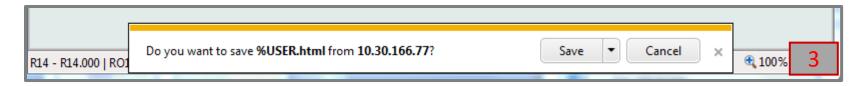


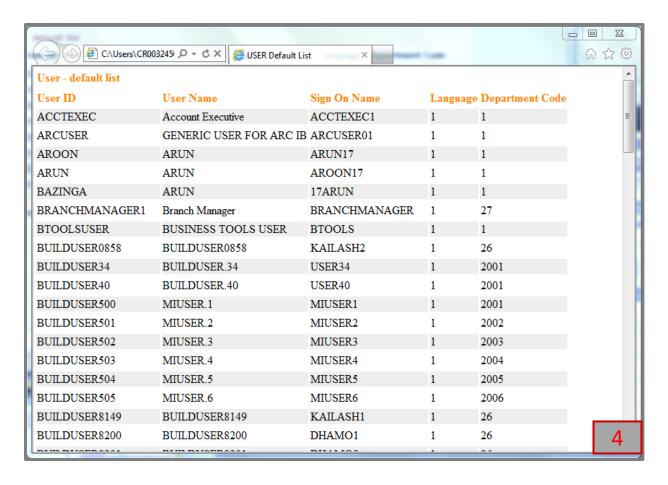
	4	Α	В	С	D	Е	F
1	L	User - defa	ault list				
2	2	User ID	User Nam	Sign On N	Language	Departme	nt Code
3	3	ACCTEXEC	Account E	ACCTEXEC	1	1	
4	1	ARCUSER	GENERIC L	ARCUSERO	1	1	
	5	AROON	ARUN	ARUN17	1	1	
6	5	ARUN	ARUN	AROON17	1	1	
7	7	BAZINGA	ARUN	17ARUN	1	1	
8	3	BRANCHN	Branch Ma	BRANCHN	1	27	
9)	BTOOLSUS	BUSINESS	BTOOLS	1	1	
1	0	BUILDUSE	BUILDUSE	KAILASH2	1	26	
1	1	BUILDUSE	BUILDUSE	USER34	1	2001	
1	2	BUILDUSE	BUILDUSE	USER40	1	2001	
1	3	BUILDUSE	MIUSER.1	MIUSER1	1	2001	
1	4	BUILDUSE	MIUSER.2	MIUSER2	1	2002	
1	5	BUILDUSE	MIUSER.3	MIUSER3	1	2003	
1	6	BUILDUSE	MIUSER.4	MIUSER4	1	2004	4

Opening/Saving as HTML

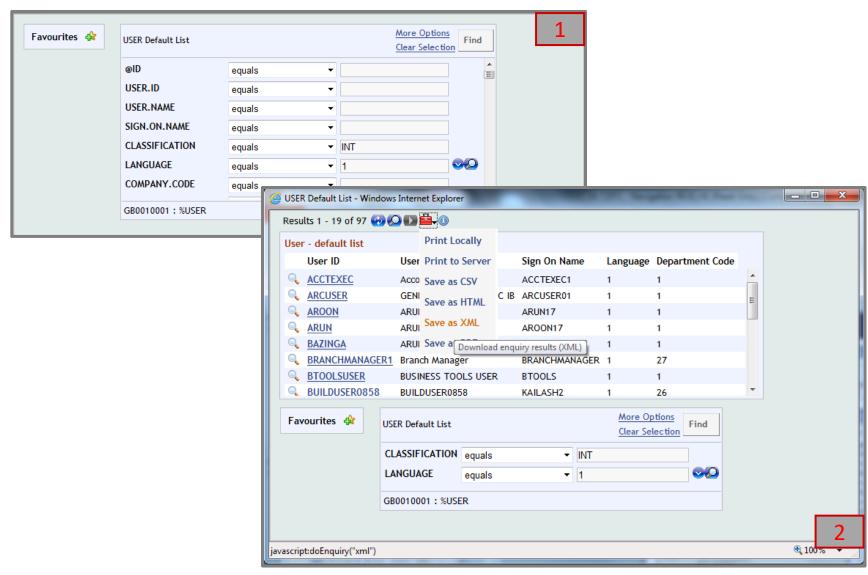


Opening/Saving as HTML

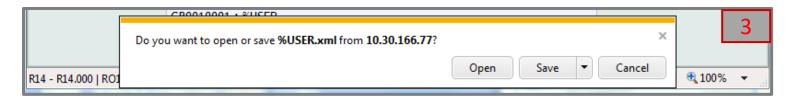




Opening/Saving as XML



Opening/Saving as XML

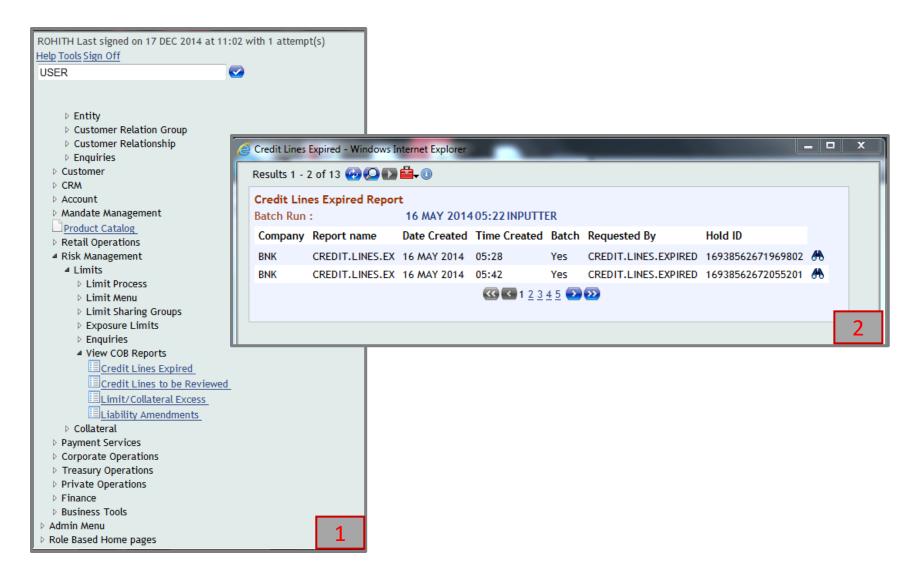


```
命 ☆ 戀
       <?xml version="1.0" encoding="UTF-8"?>
- <enquiry>
     <title>USER Default List</title>
   - <header>
           <caption>User - default list</caption>
        </row>
      - <columnheaders>
           <columnheader>User ID</columnheader>
           <columnheader>User Name</columnheader>
           <columnheader>Sign On Name</columnheader>
           <columnheader>Language</columnheader>
           <columnheader>Department Code</columnheader>
        </columnheaders>
    </header>
   - <data>
     - <row>
           <column>ACCTEXEC</column>
           <column>Account Executive</column>
           <column>ACCTEXEC1</column>
           <column>1</column>
           <column>1</column>
        </row>
           <column>ARCUSER</column>
           <column>GENERIC USER FOR ARC IB</column>
           <column>ARCUSER01</column>
           <column>1</column>
           <column>1</column>
file:///C:/Users/CR00324502/AppData/Local/Microsoft/Windows/Temporar...
           coolumns ADOON c/columns
```

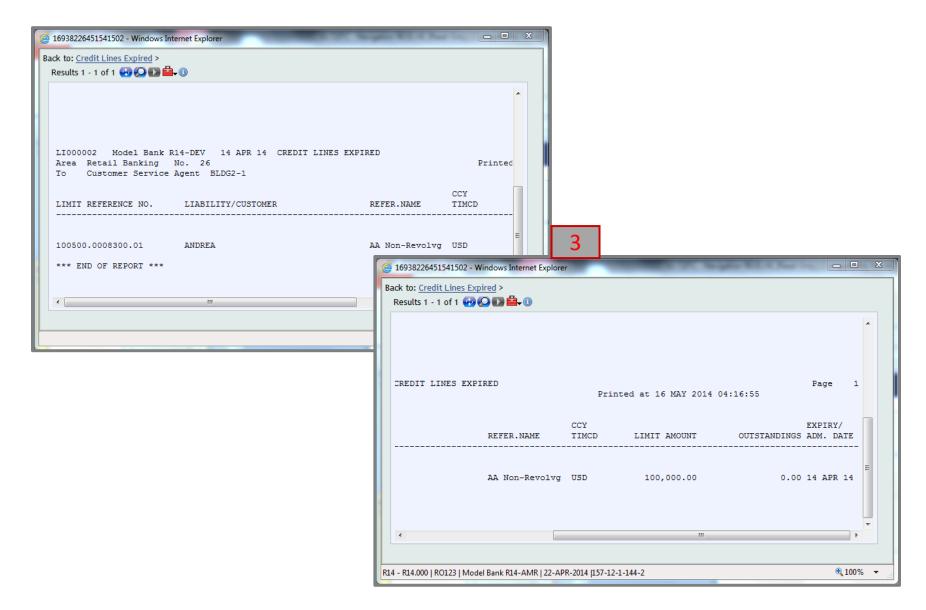
Reports

- Generally prepared as part of batch run
- Generated and stored for pre-defined periods and / or printed
- Daily General ledger, Weekly report on over dues, Monthly report to Central Bank
- COB reports available through Menu

Reports- Credit Lines Expired Report

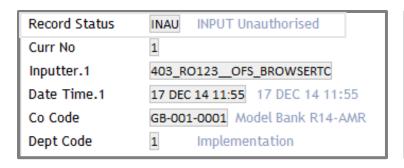


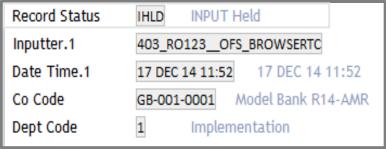
Reports- Credit Lines Expired Report



Record status and Audit Log

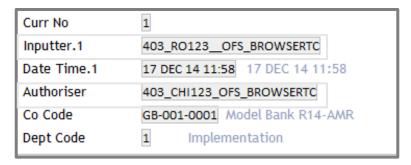
- Records, other than live, exhibit their status towards the end of the record IHLD, INAU. INA2, INAO, REVE, RNAU, HNAU
- Audit Log is an important part of any record and exhibits important information towards the end of the record

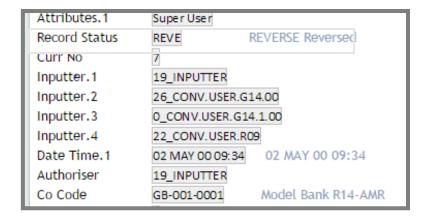


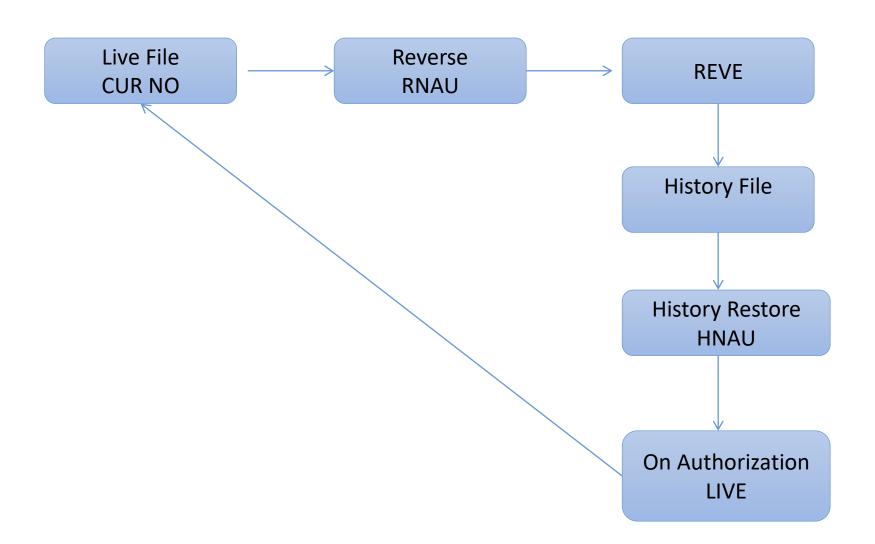


Record status and Audit Log

 The Current Number, Who Input the record, Date and time of the last action on the record, Who Authorized the record





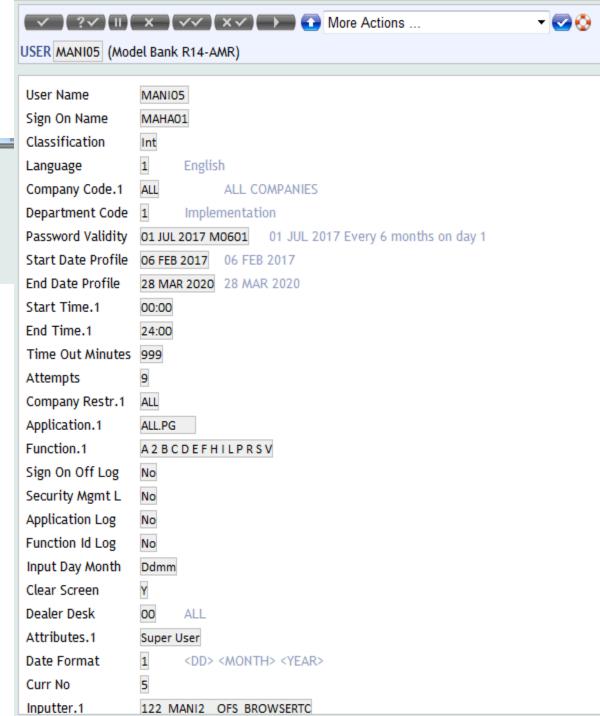


LIVE FILE



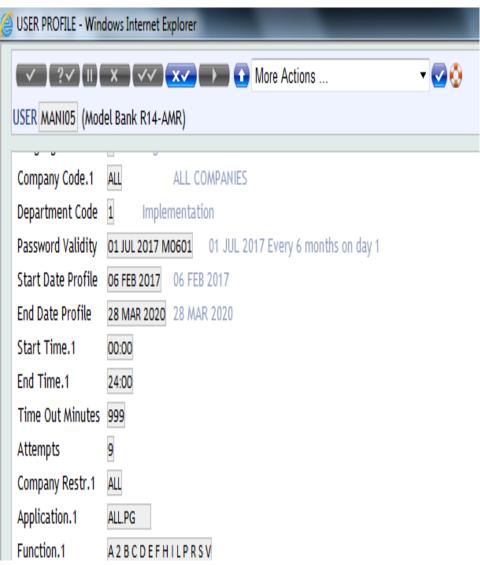
VIEW THE LIVE FILE

Observe the curr No: Here it is 5



Perform action – REVERSE

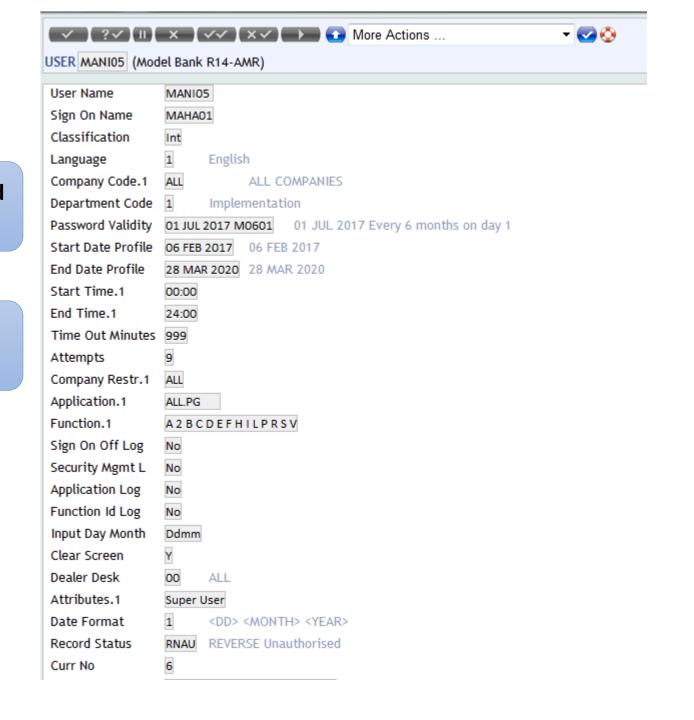




VIEW

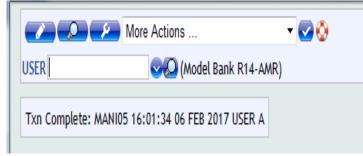
Record Status has changed to RNAU

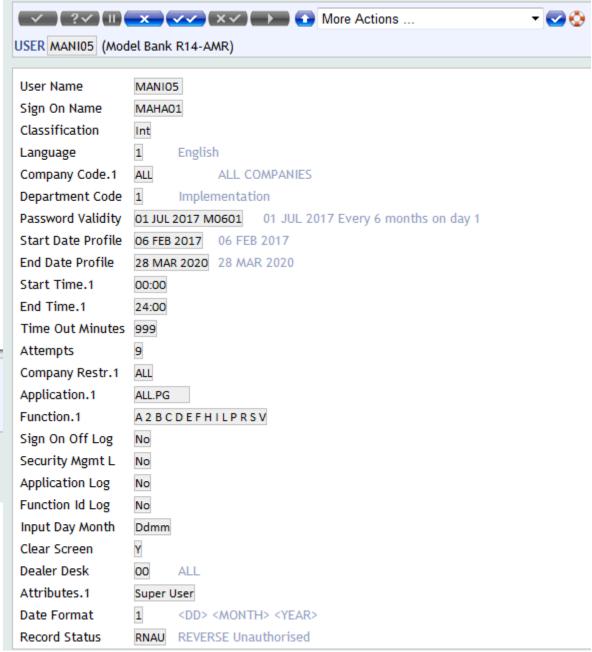
Curr No has changed to 6



Authorize RNAU record using another user

On Authorization your get the following Screen





VIEW

Now the record status has changed to REVE



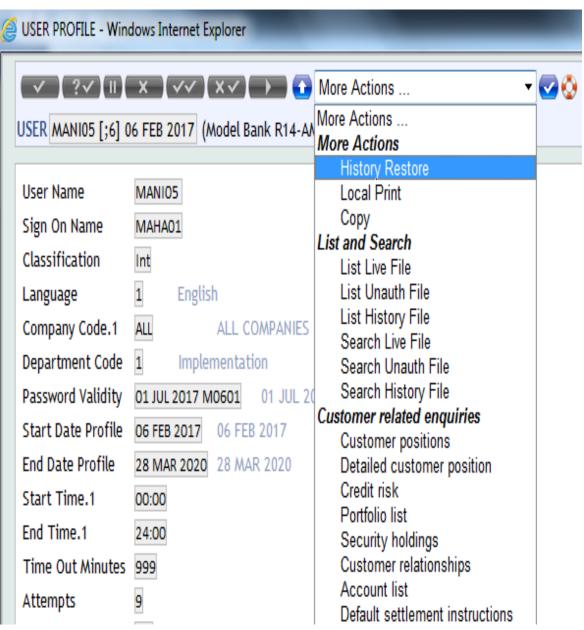
History Restore

The record has gone into history file by using Reverse function

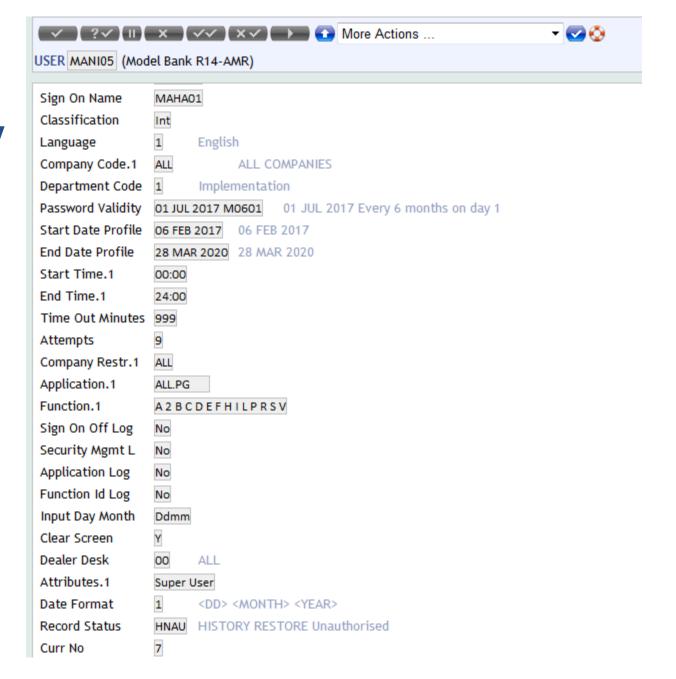
By using HISTORY RESTORE function you can bring back the Hist file to Live five

On history restore





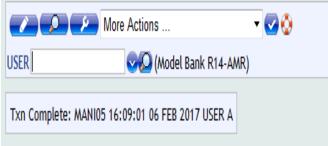
View History Unauthorise d record

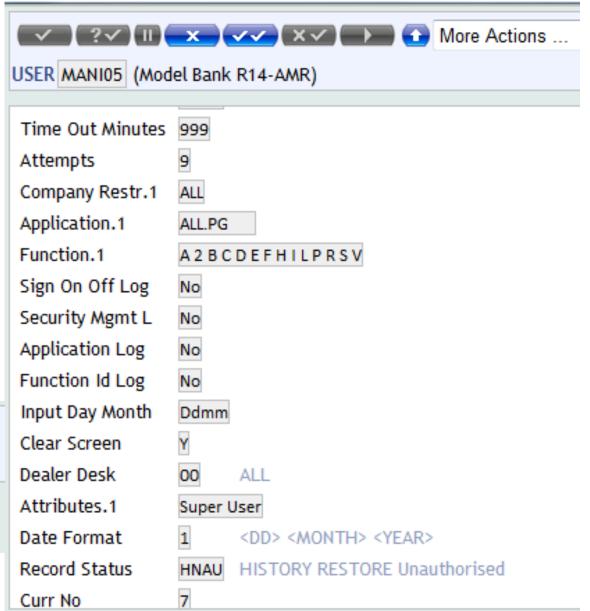


AUTHORISE

Authorize by pressing button

On Authorization

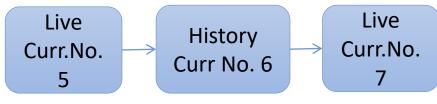




View live file

Record has become a live file

Curr No has changed to 7







CORPORATE HEADQUARTERS

Lords Tower, Block 1, 2nd Floor Jawaharlal Nehru Road, Thiru Vi Ka Industrial Estate Ekkaduthangal, Chennai – 600 032

www.maveric-systems.com

COPYRIGHT © 2020. ALL RIGHTS PROTECTED & RESERVED.

The information contained in this document, much of which is confidential to Maveric Systems, is for the sole use of the intended recipients. No part of this document may be reproduced in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of Maveric Systems.

