



TEMENOS
The Banking Software Company

BLOOMBERG PRICING INTERFACE

GR0100010

Installation Guide



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Bloomberg Pricing Interface Installation Guide

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Introduction


Objective and scope of the document

This document provides a list of steps to follow in order to install the Bloomberg Interface in any new environment. It does not address hardware or network configuration.

Assumptions

It is assumed that the reader of this guide has knowledge of the following.

1. Basic knowledge in Windows operating systems and jBASE software.
2. Fair knowledge in TEMENOS T24 TM


 If any of the above assumptions are not met, then get back to the Project Manager Onsite for HELP.

Document Support

Any queries in any part of this document can be addressed to gpack@temenos.com. Refer to the **Contact Back To** address in the Document Detail pane on Page 2 of this Guide for support.

Scope of this guide

System Requirements, Pre Installation, Installation and Post Installation Instructions are explained in detail in this Installation Guide.

-  Customization Procedures, Release Information, Guidelines for testing, Operation and Migration procedures are NOT under the scope of this Document.

System Requirements

The following are the system requirements that are needed for the installation of this interface.

1. Temenos T24 release R9 or Higher
2. jBASE/ TAFC_R09 Release or Higher

Important Note

The TEMENOS T24 Release Specifications, and the jBASE Version should be in accordance with the Specifications mentioned in the System Requirements pane, failing which the development may not be successfully installed.

Pre Installation Tasks

Creation of Directories



From the jBASE Prompt

The Following Directories are to be created as mentioned.

No	Directory Name	Type	Modulo	Separation	To be created under
1	BLOOM.BP	UD	-	-	Under ".run"

Table 1- Directories in Jbase



BLOOM.BP should not be created / cleared if the directory already exists as it could delete any previous installations made.

The above directories (mentioned in Table 1) should be created using the command given below.

Command Syntax – Example - Creation of BLOOM.BP from Run Dir

```
>CREATE.FILE BLOOM.BP TYPE=UD
```



The command mentioned in the “Command Syntax” box will create a directory with the name BLOOM.BP under the run directory.

Installations

This section explains the process required to install the Bloomberg pricing Interface. The steps primarily involve installing the libraries and data records.

Development Installation

The following steps are to be followed for the installation of **Bloomberg pricing Interface** Development.

- 1.) **GR0100010lib.tar.gz** is a compressed tar file that contains the necessary executables and libraries.
- 2.) **GR0100010Ins.tar.gz** is a compressed tar file that contains the necessary Insert Files for this Development
- 3.) Copy the files **GR0100010lib.tar.gz** into the “.run” directory of the area.
- 4.) Copy the files **GR0100010Ins.tar.gz** into **BLOOM.BP** of the “.run” directory of the area.
- 5.) Uncompress the **GR0100010lib.tar.gz** file using the following command, the extraction will create new directory namely **GR0100010lib**. Grant Permissions to the newly created directories.

```
$gunzip -c GR0100010lib.tar.gz | tar -xvf -
```

- 6.) In the “.profile” file that is present under the “.run” directory the following changes should be made.

Changes to be made in remote.cmd file

```
JBCOBJECTLIST=$JBCOBJECTLIST:$HOME/GR0100010lib
```

- 7.) Uncompress the **GR0100010Ins.tar.gz** file using the following command, the extraction will create the necessary inserts under the **BLOOM.BP**.

```
$gunzip -c GR0100010Ins.tar.gz | tar -xvf -
```

- 8.) Save the changes made to the “.profile” file.
- 9.) Logout of the area and then re-login into the area.

Data Libraries Restoration

The following steps are to be followed for the installation of the Bloomberg pricing Interface Data Libraries


1. Copy the **TMNS000-GR0100010.tar.gz** in the **../F.DL.DATA/DL.RESTORE**.


- Uncompress the **TMNS000-GR0100010.tar.gz** using the following command, the extraction will create the a directory **TMNS000-GR0100010**.


```
$gunzip -c TMNS000-GR0100010.tar.gz | tar -xvf -
```

- In the command prompt of the T24 to open the Library Parameter SYSTEM Record type **DL.PARAMETER<<space>> I<<space>> SYSTEM**
- The following table explains the fields in DL.PARAMETER.

INPUT IN THE DLPARAMETER, IN INPUT MODE OF THE SYSTEM RECORD	
Field OPERATION	– Should contain the value R
Field FROM.FILE	– /glohd1/jbaseareas/jb13204/mbdemo/mbdemo.run
Field OVERWRITING	– Should contain the value Y
Field RESTORE.UNITS	– Should contain the name of the Library (e.g TMNS000-GR0100010)

 Please refer to the path in Figure 1 and make the required changes to point to the path you wish to install

 It is advised that the USER performing this action, has access to all the Companies in the Account, if the installation is on a MULTI COMPANY Environment

 The field values defined in **SYSTEM** record of DL.PARAMETER are **ENVIRONMENT SPECIFIC** and the values shown in the screen shot are only

```

ID..... SYSTEM
-----
1. 1 REPLACE.CHARS..
2. 1 REPLACE.WITH...
3 OPERATION..... R
4 FROM.FILE..... ../F.DL.DATA/DL.RESTORE
5 OVERWRITING..... Y
6. 1 RESTORE.UNITS.. TMNS000-GR0100010
7. 1 SAVE.UNITS.....

```

Figure 1 - SampleScreen shot of DL.PARAMETER

- The **SYSTEM** record of DL.PARAMETER is verified using the 'V' function.
- The above operation will create a record in the Application DL.DEFINITION with record ID as **TMNS000-GR0100010**

3. Open the record in the DL.DEFINE Application and verify the record using the "Verify" Function.
4. Once the record is committed using the Verify function, the Data records will get placed into the corresponding files in IHLN status in the \$NAU Files, and in Live files.

Exception

Data records delivered through DL.DEFINE should be authorised. Run EXCEPTION enquiry to list the unauthorised file. The records should be reviewed and authorised.

FILE.CONTROL

Check for the Following FILE.CONTROL Records

As the FILE.CONTROL Template is a LIVE File, entry in INPUT MODE is not permitted. However you can check the presence of the following records by viewing the Records in See(S) mode.

Make sure FILE.CONTROL records (as below) have been properly copied by the DL.DEFINE. If not, they are required to be created before continuing further.

NAME	PRODUCT	SUFFIX	TYPE, MOD	CLASSIFICATION
BPI.INCOMING.PRICES	SC	\$HIS,\$NAU	2,31	INT
BPI.PARAMETER	SC	\$HIS,\$NAU	2,31	INT

FILE.CONTROL CHECKLIST

The 'File Control Suffixes' in the above table needs to be filled upon clarification.

PGM.FILE

Check for the Following PGM.FILE Records and Authorize Them.

As the PGM.FILE Records will reside in the \$NAU File, Use Function E to display the Exception List. From the Exception List Authorize the Records shown below.

NAME	TYPE	ADDITIONAL INFO	BATCH.JOB
V.BPI.SC.CLEAR.LAST.PRICE	S		
BPI.PARAMETER	H		
BPI.INCOMING.PRICES	H	Daily Feed File	
US.CLEAR.FILE	B	R	@US.CLEAR.FILE
V.US.GIT.CREATE.FILES	S		

PGM.FILE CHECKLIST

The blank columns [TYPE (1) & ADDITIONAL.INFO (3)] in the above tabular column need to be filled upon clarification.

LOCAL.TABLE

Create the LOCAL.REFERENCE Field in the Template LOCAL.TABLE and authorize this record, using the data given below.

You can choose any Number that has not been used before to create the ID for the LOCAL.TABLE File.

However, note down these IDS, as you will need them to attach these LOCAL REFERENCE Field to their Respective Application. This Process is explained in the following section with sample Ids for LOCAL.TABLE.

TABLE.NO.....	9799

1. 1 GB DESCRIPTION.	ID used for BBG price update
2. 1 GB SHORT.NAME..	US.FEED.ID.TYPE
3 MAXIMUM.CHAR.....	35
5 CHAR.TYPE.....	A
18 APPLICATION.VET...	ALT.SEC.PARAMETER
19 APPL.ENRICHM.FIELD	2

TABLE.NO.....	9990

1. 1 GB DESCRIPTION.	US Coupon Date
2. 1 GB SHORT.NAME..	US.CPN.DATE
3 MAXIMUM.CHAR.....	35
5 CHAR.TYPE.....	A

TABLE.NO.....	9991

1. 1 GB DESCRIPTION.	US Coupon Rate
2. 1 GB SHORT.NAME..	US.CPN.RATE
3 MAXIMUM.CHAR.....	11
5 CHAR.TYPE.....	R

TABLE.NO.....	9992

1. 1 GB DESCRIPTION.	US Cap Rate
2. 1 GB SHORT.NAME..	US.CAP.RATE
3 MAXIMUM.CHAR.....	11
5 CHAR.TYPE.....	R

TABLE.NO.....	9993

1.1 GB DESCRIPTION.	US Factor
2.1 GB SHORT.NAME..	US.FACTOR
3 MAXIMUM.CHAR.....	11
5 CHAR.TYPE.....	R

LOCAL.REFERENCE.TABLE

Once the Local Reference Field is created using the LOCAL.TABLE Application and their characteristics defined, in order for them to appear in the Respective Application, a reference has to be created in the Template LOCAL.REF.TABLE.

Create the Entry in the Template LOCAL.REF.TABLE with the details given in Table (4) – LOCAL.REF.TABLE Check List

The Local Reference Field ID's respective to the Local Reference Field Names as given in the Table have to be Keyed in, in the Field LOCAL.TABLE.NO, in the Template LOCAL.REF.TABLE

ID OF LOCAL.REF.TABLE	LOCAL.TABLE.NO	SUB.ASSOC.CODE
SECUIRY.MASTER	9799	Leave blank
	9990	Leave blank
	9991	Leave blank
	9992	Leave blank
	9993	Leave blank

LOCAL.REF.TABLE CHECK LIST

STANDARD.SELECTION

Rebuild the Following STANDARD.SELECTION Records by inputting Y in the field REBUILD.SYS.FIELDS (Field 28) committing and authorizing the records.

NO	FILE NAME	REBUILD.SYS.FLDS
2	BPI.PARAMETER	Y
3	BPI.INCOMING.PRICES	Y
4	NOFILE.BPI.SC.PRICE.VARIANCE	Y

STANDARD.SELECTION CHECK LIST

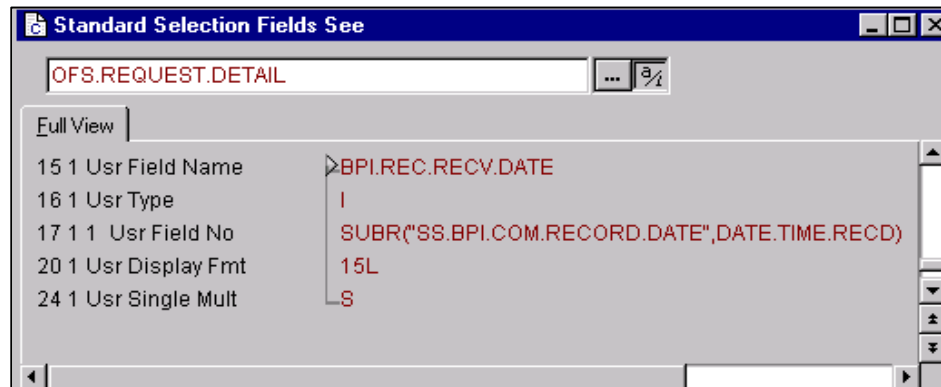
Creation of I descriptors & J descriptors

Following I & J descriptors need to be created using the following information.

OFS.REQUEST.DETAIL:

Create a I descriptor in the STANDARD.SELECTION record OFS.REQUEST.DETAIL using the following details.

15. 1	USR.FIELD.NAME.	BPI.REC.RECV.DATE
16. 1	USR.TYPE.....	I
17. 1. 1	USR.FIELD.NO	SUBR("SS.BPI.COM.RECORD.DATE",DATE.TIME.RECD)
20. 1	USR.DISPLAY.FMT	15L
24. 1	USR.SINGLE.MULT	S

**SECURITY.MASTER:**

Create a I descriptor in the STANDARD.SELECTION record SECURITY.MASTER using the following details.

15. 6	USR.FIELD.NAME.	ISIN-ALT
16. 6	USR.TYPE.....	I
17. 6. 1	USR.FIELD.NO	ALT.SECURITY.NO<1,1>
20. 6	USR.DISPLAY.FMT	35L
24. 6	USR.SINGLE.MULT	S
15. 7	USR.FIELD.NAME.	EUROCLEAR-ALT
16. 7	USR.TYPE.....	I

17. 7. 1	USR.FIELD.NO	ALT.SECURITY.NO<1,2>
20. 7	USR.DISPLAY.FMT	35L
24. 7	USR.SINGLE.MULT	S
15. 8	USR.FIELD.NAME.	CEDEL-ALT
16. 8	USR.TYPE.....	I
17. 8. 1	USR.FIELD.NO	ALT.SECURITY.NO<1,3>
20. 8	USR.DISPLAY.FMT	35L
24. 8	USR.SINGLE.MULT	S
15. 9	USR.FIELD.NAME.	SEDOL-ALT
16. 9	USR.TYPE.....	I
17. 9. 1	USR.FIELD.NO	ALT.SECURITY.NO<1,4>
20. 9	USR.DISPLAY.FMT	35L
24. 9	USR.SINGLE.MULT	S
15.10	USR.FIELD.NAME.	SWISS-ALT
16.10	USR.TYPE.....	I
17.10. 1	USR.FIELD.NO	ALT.SECURITY.NO<1,5>
20.10	USR.DISPLAY.FMT	35L
24.10	USR.SINGLE.MULT	S
15.11	USR.FIELD.NAME.	CUSIP-ALT
16.11	USR.TYPE.....	I
17.11. 1	USR.FIELD.NO	ALT.SECURITY.NO<1,6>
20.11	USR.DISPLAY.FMT	35L
24.11	USR.SINGLE.MULT	S
15.12	USR.FIELD.NAME.	BLOOMBERG

16.12 USR.TYPE..... I

17.12. 1 USR.FIELD.NO ALT.SECURITY.NO<1,7>

20.12 USR.DISPLAY.FMT 35L

24.12 USR.SINGLE.MULT S

15.13 USR.FIELD.NAME. FREEFMT

16.13 USR.TYPE..... I

17.13. 1 USR.FIELD.NO ALT.SECURITY.NO<1,8>

20.13 USR.DISPLAY.FMT 35L

24.13 USR.SINGLE.MULT S

15.14 USR.FIELD.NAME. NASD-TICKER

16.14 USR.TYPE..... I

17.14. 1 USR.FIELD.NO ALT.SECURITY.NO<1,9>

20.14 USR.DISPLAY.FMT 35L

24.14 USR.SINGLE.MULT S

15.15 USR.FIELD.NAME. BPI.UPDATE.DATE

16.15 USR.TYPE..... I

17.15. 1 USR.FIELD.NO SUBR("SS.BPI.SC.GET.UPDATE.FREQUENCY",

17.15. 2 USR.FIELD.NO SUB.ASSET.TYPE)

20.15 USR.DISPLAY.FMT 11R

24.15 USR.SINGLE.MULT S

Standard Selection Fields, See

SECURITY.MASTER

Full View

15 6	Usr Field Name	ISIN-ALT
16 6	Usr Type	I
17 6 1	Usr Field No	ALT.SECURITY.NO<1,1>
20 6	Usr Display Fmt	35L
24 6	Usr Single Mult	S
15 7	Usr Field Name	EUROCLEAR-ALT
16 7	Usr Type	I
17 7 1	Usr Field No	ALT.SECURITY.NO<1,2>
20 7	Usr Display Fmt	35L
24 7	Usr Single Mult	S
15 8	Usr Field Name	CEDEL-ALT
16 8	Usr Type	I
17 8 1	Usr Field No	ALT.SECURITY.NO<1,3>
20 8	Usr Display Fmt	35L
24 8	Usr Single Mult	S

Standard Selection Fields, See

SECURITY.MASTER

Full View

15 9	Usr Field Name	SEDOL-ALT
16 9	Usr Type	I
17 9 1	Usr Field No	ALT.SECURITY.NO<1,4>
20 9	Usr Display Fmt	35L
24 9	Usr Single Mult	S
15 10	Usr Field Name	SWISS-ALT
16 10	Usr Type	I
17 10 1	Usr Field No	ALT.SECURITY.NO<1,5>
20 10	Usr Display Fmt	35L
24 10	Usr Single Mult	S
15 11	Usr Field Name	CUSIP-ALT
16 11	Usr Type	I
17 11 1	Usr Field No	ALT.SECURITY.NO<1,6>
20 11	Usr Display Fmt	35L
24 11	Usr Single Mult	S

Standard Selection Fields, See

SECURITY.MASTER

Full View

15 12	Usr Field Name	BLOOMBERG
16 12	Usr Type	I
17 12 1	Usr Field No	ALT.SECURITY.NO<1,7>
20 12	Usr Display Fmt	35L
24 12	Usr Single Mult	S
15 13	Usr Field Name	FREEFMT
16 13	Usr Type	I
17 13 1	Usr Field No	ALT.SECURITY.NO<1,8>
20 13	Usr Display Fmt	35L
24 13	Usr Single Mult	S
15 14	Usr Field Name	NASD-TICKER
16 14	Usr Type	I
17 14 1	Usr Field No	ALT.SECURITY.NO<1,9>
20 14	Usr Display Fmt	35L
24 14	Usr Single Mult	S

Standard Selection Fields, See

SECURITY.MASTER

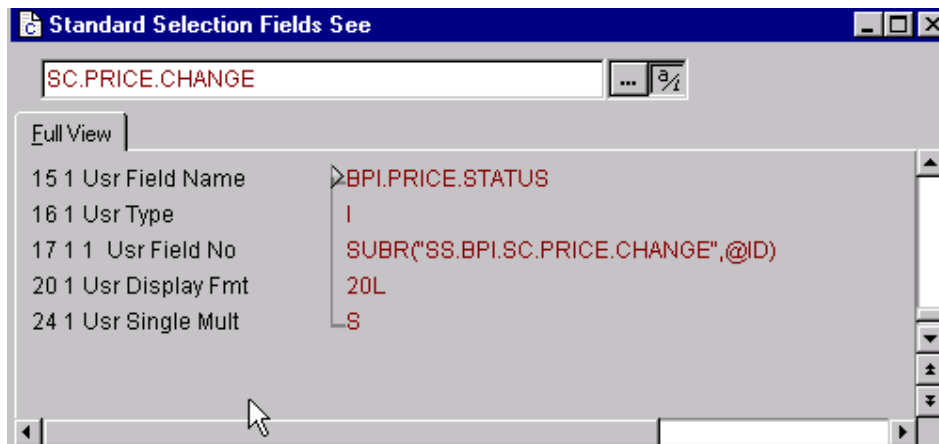
Full View

15 15	Usr Field Name	BPI.UPDATE.DATE
16 15	Usr Type	I
17 15 1	Usr Field No	SUBR("SS.BPI.SC.GET.UPDATE.FREQUENCY",
17 15 2	Usr Field No	SUB.ASSET.TYPE)
20 15	Usr Display Fmt	11R
24 15	Usr Single Mult	S

SC.PRICE.CHANGE:

Create a I descriptor in the STANDARD.SELECTION record SC.PRICE.CHANGE using the following details.

15. 1	USR.FIELD.NAME.	BPI.PRICE.STATUS
16. 1	USR.TYPE.....	I
17. 1. 1	USR.FIELD.NO	SUBR("SS.BPI.SC.PRICE.CHANGE",@ ID)
20. 1	USR.DISPLAY.FMT	20L
24. 1	USR.SINGLE.MULT	S



Creating Alternate Index (ALT.SEC.PARAMETER)

Records need to be created in ALT.SEC.PARAMETER for the following Ids.

ISIN-ALT

EUROCLEAR-ALT

CEDEL-ALT

SEDOL-ALT

SWISS-ALT

CUSIP-ALT

BLOOMBERG

FREEFMT

NASD-TICKER

All the above records should contain three values. Description, Short Description, and Maximum.Length. The field Maximum.Length should contains the value 35.

These fields need to be attached to **SC.PARAMETER** (for the company defined as the MASTER Company in COMPANY.CHECK) in the same order as listed above ¹.

¹The field ALTERNATE.INDEX (Field 25) has to be made NULL to enable input in ALT.USER.INDEX (Field 89.1)

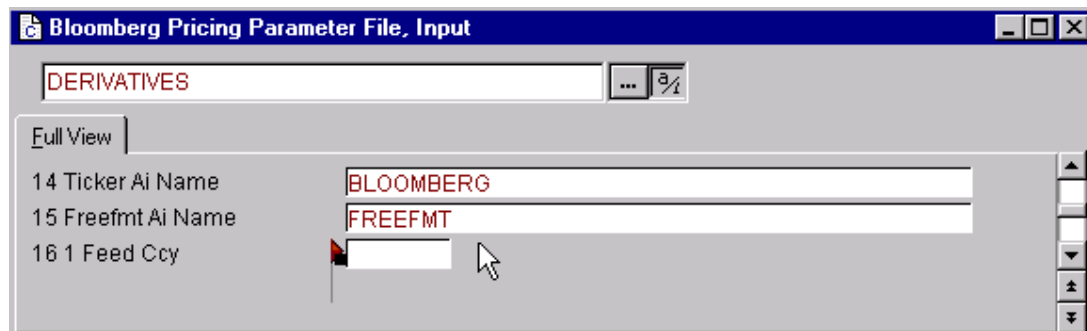
Authorizing IHLN records

Following Records need to be validated and authorized.

APPLICATION	RECORD.ID
GIT.INTERFACE.OUT	BLOOMBERG.PRICING.SC
GIT.MAPPING.OUT	BLOOMBERG.PRICING.SC -1-1

GIT.FORMATting.OUT	BLOOMBERG.PRicing.SC -1-Header
GIT.FORMATting.OUT	BLOOMBERG.PRicing.SC -1-1
GIT.FORMATting.OUT	BLOOMBERG.PRicing.SC -1-Footer
GIT.TRANSPORT	BLOOMBERG.PRicing.SC
GIT.TRANSPORT.FILE	BLOOMBERG.PRicing.SC -1
GIT.INTERFACE.IN	BLOOMBERG.PRicing.SC
GIT.MAPPING.IN	BLOOMBERG.PRicing.SC -1-1
GIT.TRANSPORT.FILE	BLOOMBERG.PRicing.SC -2
HELPTExT.MENU	BLOOMBERG.PRicing
HELPTExT.MENU	BLOOMBERG.PRicing.ENQ
HELPTExT.MENU	BLOOMBERG.PRicing.ENQ.ERRORS
HELPTExT.MENU	BLOOMBERG.PRicing.ENQ.SC.PRICES
HELPTExT.MENU	BLOOMBERG.PRicing.SC
VERSION	BPI.INCOMING.PRICES
VERSION	SECURITY.MASTER
DE.CARRIER	CRYSTAL
DE.FORM.TYPE	CRYSTL
DE.INTERFACE	CRYSTAL
OFS.SOURCE	BLOOMBERG.PRicing
PRINTER.ID	CRYSTAL.SPOOL

Record to Authorized - CHECK LIST

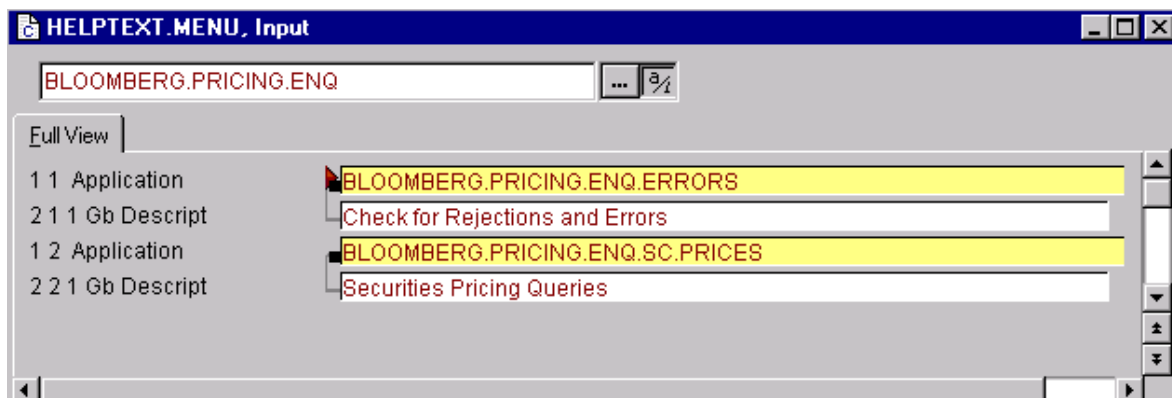


Amendments in HELPTEXT.MENU

Amend the BLOOMBERG.PRICING record in HELPTEXT.MENU to include BLOOMBERG.PRICING.SC submenu.



Amend the BLOOMBERG.PRICING.ENQ record in HELPTEXT.MENU to include BLOOMBERG.PRICING.ENQ.SC.PRICES Submenu.



Creation of Batch:

The Batch entry should be created as BNK/XXX. In the field BATCH.ENVIRONMENT should be given as F-foreground,

FREQUENCY-Daily, JOB.NAME-XXX (Routine name)

```
R6 MODEL BANK      BATCH ENTRY, SEE
  BATCH PROCESS..... BNK/OFS.PH.POST.SERVICE
-----
  3 PROCESS.STATUS.... 0                      READY
  4 BATCH.ENVIRONMENT. F                      FOREGROUND
  6. 1 JOB.NAME.....  OFS.PH.POST.SERVICE
  8. 1 FREQUENCY.....  D                      DAILY
 12. 1 JOB.STATUS..... 0                      READY
 13. 1 LAST.RUN.DATE.. 10 JUL 2006
 17 CURR.NO.....      1
 18. 1 INPUTTER.....  10_DIVYA03
 19. 1 DATE.TIME..... 14 AUG 07 17:19
 20 AUTHORISER.....  10_DIVYA03
```

Creation of service

In TSA.SERVICE create a service named BNK\OFS.PH.POST.SERVICE

```
R6 MODEL BANK      TSA.SERVICE, SEE
  SERVICE.....      BNK/OFS.PH.POST.SERVICE
-----
  1 DESCRIPTION.....  RUNNING SERVICE AS PHANTOM
  3. 1 WORK.PROFILE... THREE                  FOR OFS.PH.IN.SERVICE
  4 USER.....         DIVYA03                 DIVYA03
  5 SERVICE.CONTROL... STOP
 15 CURR.NO.....      10
 16. 1 INPUTTER.....  7_DIVYA03
 17. 1 DATE.TIME..... 21 AUG 07 12:03
 18 AUTHORISER.....  7_DIVYA03
 19 CO.CODE.....      GB-001-0001            R6 MODEL BANK
 20 DEPT.CODE.....    1
```

Screenshot of TSA.SERVICE