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## 1. Preamble

TBT/400 can be installed in two different ways:

- automatic (Chapter 2 Automatic installation page 3)
- semi-automatic (Chapter 3 Semi-automatic page 4).

Whatever your environment, semi-automatic installation is always possible.

The automatic installation is subject to the conditions detailed at the beginning of Chapter 2 Automatic installation page 3.

Depending of the model of your **AS/400**, the installation will take approximately **30 minutes**.

But in the first place:

### 1.1. Using a profile with access rights

At this stage, a user profile with special authorities **\*ALLOBJ \*SECOFR \*JOBCTL and \*SPLCTL, QSECOFR** (for example) must be used. <sup>(1)</sup>.

### 1.2. Subsystem


The subsystem must be **imperatively** stopped (**ex** : reinstallation).


(ENDSBS IPS\$\$\$SUBS)

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<sup>(1)</sup> At the start of the procedure, these authorities are verified, with stop instruction if they are not present.

**2. Automatic installation**

you use  Automatic installation is possible  
standard names  
(IPLSC, IPLSP)

**And** delivery support  Automatic installation is possible  
is a CD-R

For all other cases, use semi-automatic installation. (Chapter 3 Semi-automatic Page 4).

In automatic installation mode, TBT/400 autosaves the earlier version.

Just input the command	LODRUN OPT01	if CD-R
------------------------	--------------	---------

Parameterization screen will be displayed. Chapter 4 page 6.

If you are using **V4R5M0 (include) to V5R3M0 (exclude) Release of OS/400**,  
you will install release **V5R1M0 of TBT/400**.

If you are using **V5R3M0 (or higher) of OS/400**, you will install **V6R1M0 of TBT/400**.

The two releases of **TBT/400** have same functionalities; **V6R1M0 release of TBT/400** is optimized for V5R3M0 (and higher) of OS/400

### 3. Semi-automatic installation

#### 3.1. Optional downloading of the last version of TBT/400.

IPLS proposes you one **website** dedicated to the downloading on which ones you can find:

1. The last version of the technical manuals (in particular software installation")
2. The last release of **TBT/400** software.

These website is : <http://www.tbt400.com>

##### 3.1.1. Downloading on microcomputer (PC) of the compressed file

Click on the icon of downloading and accept the general terms applicable to the license of use of the software package. Then, choose the type of your platform hardware (depending on OS/400 level) in order to download the software version according to your platform. You are going to download one of the two following files:

1. **TBP510.SVF** <sup>2</sup> (100 Mbytes)
2. **TBP610.SVF** <sup>3</sup> (120 Mbytes)

##### 3.1.2. Transfer the save file on the AS/400

The following explanations relate to 510 Release; for 610 Release, use **TBP610** instead of **TBP410**.

A possible method is the transfer by FTP.

1. Create the incoming file file on the AS/400 : **CRTSAVF IPLSTRANS/TBP410**
2. If necessary, start the **FTP** server: **STRTCPSVR \*FTP**
3. Start the Client FTP: in a **MSDOS** window, use **FTP 'monhost'**, where monhost is the name of the host allotted to the AS/400 target.
4. The AS/400 responds by **'Enter User'**
5. Input **'Userid'** (with OS/400 direction)
6. The answer of the AS/400 is **'Enter Password'**
7. Input the **password** of the used Userid
8. The answer of the AS/400 is **'Userid is logged on'**
9. Input **'BINARY'**
10. The answer of the AS/400 is **'Representation mode is binary image'**
11. Input **'PUT TBP410.SVF QGPL/TBP410'**, Dirpc is the repertory of the storage of the TBP410.SVF file.
12. Two answers arise: **'Sending ....'** Then **'250 File transfer completed succesfully.'**
13. Input **'QUIT'** to stop FTP session.

---

<sup>2</sup> This release can be use with **OS/400** release **V4R5M0 and higher**.

<sup>3</sup> This release can be use with **OS/400** release **V5R3M0 and higher**

The savefile is now on the AS/400; you can use the installation procedure described below (reception by teletransmission).

### 3.2. Installation

#### 3.2.1. Previous version back-up

Input the following commands:

```
CPYLIB FROMLIB (IPLSC) TOLIB (IPLSCOLD) (4)
RNMOBJ OBJ(QSYS/IPLSP) OBJTYPE(*LIB) NEWOBJ (IPLSPOLD) (5)
```

The aim is to back up the current environment to prepare for a reinstallation.

IPLSP and IPLSC will be backed up, and then the IPLSP library will be deleted.

#### 3.2.2. Program library load



```
RSTLIB SAVLIB (TBP610) DEV(*SAVE) SAVF (IPLSTRANS/TBP610) RSTLIB (IPLSP) (6) if >=V5R3M0
RSTLIB SAVLIB (TBP510) DEV(*SAVE) SAVF (IPLSTRANS/TBP510) RSTLIB (IPLSP) if < V5R3M0
```



```
RSTLIB SAVLIB (TBP610) DEV(OPT01) RSTLIB (IPLSP) (7) if >=V5R3M0
RSTLIB SAVLIB (TBP510) DEV(OPT01) RSTLIB (IPLSP) if < V5R3M0
```

#### 3.2.3. Initialization

The aim of this stage is to create or to update the various objects used by the software.

##### **It has to be carried out each time.**

As initialization procedure is sending information messages to user queue, it is advised to input the command:



```
CHGMSGQ MSGQ(*USRPRF) DLVRY(*HOLD)
```

before starting the installation procedure



```
CHGCURLIB IPLSP
CALL IPSPGINIT
```

<sup>(4)</sup> *IPLSC back-up.*

<sup>(5)</sup> *IPLSP back-up and delete.*

<sup>(6)</sup> *If reception is made by teletransmission.*

<sup>(7)</sup> *If support is CD ROM*

4. Parameterization screens

During this procedure, a screen menu will be proposed twice.

At the 1st display, it is possible to modify the TBT/400 user code (default value: IPS\$\$\$USER), as well as the subsystem prefix (default value IPS). If default values are accepted, exit the menu by using PF3. (8)

```
TBT/400  V410                Customer Company                02/01/01  14.00.00
IPS0101  Prod                Environment parameters                IPLS05   IPLSP

Name of the Customer Society . . . . . Customer Company
Environment name . . . . . Test
Submitted jobs prefix . . . . . S
Option 00 . . . . . 00000000000000000000000000000000
Option 01 . . . . . 00000000000000000000000000000000
Security key TBT/400 . . . . . ??????????
Prefix of sub-system and drivers . . . . . IPS
User Code TBT/400 . . . . . IPS$$$USER
Software library . . . . . IPLSP
Configuration library . . . . . IPLSC
Operation library . . . . . IPLSE
Message library . . . . . IPLSM
Model and Serial number of your AS/400 . . . . . ??? ???????
Release of your OS/400 . . . . . VxRyMz
TBT/400 Release and Version number . . . . . 410 52
National parameters . . . . . 297 FR 00000006970000000297
active TCP/IP . . . . . _ Y,N
active X25 . . . . . _ Y,N
F1=Help F3=Exit F6=Print F9=Cmd
Copyright Informatique Pour Les Sociétés IPLS
```

At the 2nd display, you have to complete the option vector as well as the software security key. Then, exit the menu by using PF3.

```
TBT/400  V410                Customer Company                02/01/01  14.00.00
IPS0101  Prod                Environment parameters                IPLS05   IPLSP

Name of the Customer Society . . . . . Customer Company
Environment name . . . . . Test
Submitted jobs prefix . . . . . S
Option 00 . . . . . 00000000000000000000000000000000
Option 01 . . . . . 00000000000000000000000000000000
Security key TBT/400 . . . . . ??????????
Prefix of sub-system and drivers . . . . . IPS
User Code TBT/400 . . . . . IPS$$$USER
Software library . . . . . IPLSP
Configuration library . . . . . IPLSC
Operation library . . . . . IPLSE
Message library . . . . . IPLSM
Model and Serial number of your AS/400 . . . . . ??? ???????
Release of your OS/400 . . . . . VxRyMz
TBT/400 Release and Version number . . . . . 410 52
National parameters . . . . . 297 FR 00000006970000000297
active TCP/IP . . . . . _ Y,N
active X25 . . . . . Y Y,N
F1=Help F3=Exit F6=Print F9=Cmd
Copyright Informatique Pour Les Sociétés IPLS
```

(8) There is no other possibility to rename neither the user code nor the subsystem prefix; all objects necessary to TBT/400 working will be created after this stage.

**4.1. Installation end**

After the installation, and before starting TBT/400, **imperatively** consult "IPSNEWS" member of "IPSSAMPLES" file from "IPLSP" library to obtain information on this version.

## 5. Line creation (only for X25)

### 5.1. Remark

This stage has to be done only during an initial installation, **ONLY if the line is not already defined on the AS400 (to be sure, input WRKLIND command and look for an X25 line definition)**. The aim is to create a line definition (in AS400 terms). It is only relevant for X25 (with the exclusion of X32).

### 5.2. Creation commands

*IPLSP/IPSCTRLIGN CRTLIG(IPSX25LINE) CRTRES(LINXYZ) CRTINT(V24) CRTDCE(\*NO)*

<b>CRTLIG</b>	OS/400 name of the line
<b>CRTRES</b>	Name of the line resource
<b>CRTINT</b>	Interface (V24 or V35) <sup>(9)</sup>
<b>CRTDCE</b>	DCE role (*NO or *YES) <sup>(10)</sup>

A model set of OS/400 commands to create a line will be proposed, allowing you to modify the essential values. If this command is used when the line already exists, a model set of OS/400 updating commands will be proposed.

It is possible to modify the essential parameters:

- Default packet size for send and receive
- Maximum packet size for send and receive
- Packet numbering used
- Packet window
- Number of virtual circuits
- Network address, and insertion of it
- .....

<sup>(9)</sup> The interface V24 supports communications speeds up to 19200 bauds, the interface V35 up to 64000 bauds.

<sup>(10)</sup> When the AS400 acts as a DCE, it waits for the connection ; this is in exceptional cases.



## 6. Software configuration


### 6.1. Remarks

This stage is to be done only during an initial installation. It is recommended to refer to **IPLS** to realize this installation stage. The list of actions to be taken depends on the installed options. To access the various parameters, use the **IPS** command.

*IPLSP/IPS*

### 6.2. Environment parameters

```

TBT/400 V410          IPLS - AS400P - 170          02/01/01  14.00.00
IPS0101 Prod          Environment parameters      IPLS05   IPLSP
                                                    
Name of the Customer Society . . . . . Customer Company
Environment name . . . . . Test
Submitted jobs prefix . . . . . S
Option 00 . . . . . ??????00000000000000000000000000000000
Option 01 . . . . . ??????00000000000000000000000000000000
Security key TBT/400 . . . . . ??????????
Prefix of sub-system and drivers . . . . . IPS
User Code TBT/400 . . . . . IPS$$$USER
Software library . . . . . IPLSP
Configuration library . . . . . IPLSC
Operation library . . . . . IPLSE
Message library . . . . . IPLSM
Model and Serial number of your AS/400 . . . . . ??? ??????
Release of your OS/400 . . . . . VxRyMz
TBT/400 Release and Version number . . . . . 410 52
National parameters . . . . . 297 FR 00000006970000000297
active TCP/IP . . . . . _ Y,N
active X25 . . . . . Y Y,N
F1=Help F3=Exit F6=Print F9=Cmd
Copyright Informatique Pour Les Sociétés
                                                    IPLS

```

In this menu, it is important to input :

- The environment (Test, Prod, ....)
- The company name (Visible on any screen)

**6.3. Lines table**

TBT/400	V410	Customer Company		02/01/01	14.00.00
IPS0011	Prod	Lines configuration		IPLS05	IPLSP
Line	Line	Switched	Virtual	Circuits	Narrative
TBT/400	AS/400	Total	Input	Output	R 2 W
LIGNE001	IPSX25LINE			Ligne par défaut	C 5 A
					N N Y
F1=Help F3=Exit F6=Print F7=Up F8=Down F9=Cmd F10=Zoom F13=Up F18=Curs					
F21=Default F24=Down Copyright Informatique Pour Les Sociétés IPLS					

 **F10**

TBT/400	V410	IPLS - AS400P - 170		02/01/01	14.00.00
IPS9011	Prod	Line items		IPLS05	IPLSP
Logical name of TBT/400 line . . . . . LIGNE001					
Logical name of OS/400 line . . . . . IPSX25LINE					
Number of SVC'S used . . . . .					
Number of receive SVC'S reserved . . . . .					
Number of send SVC'S reserved . . . . .					
Line's narrative . . . . . Ligne par défaut					
Allowed reversed charge . . . . . N					
X25 type . . . . . N					
Watch of the line . . . . . Y					
Phone number if switched line . . . . .					
Resource name for X32 . . . . .					
Hold line . . . . . N					
Packet size . . . . .					
Window size . . . . .					
Call prefix if switched line . . . . .					
Private line . . . . . N					
PID 01 used . . . . . N					
F1=Help F3=Exit F6=Print F7=Up F8=Down F9=Cmd F13=Up F21=Default F24=Down					
Copyright Informatique Pour Les Sociétés IPLS					

In this menu, the association of the **TBT/400** line to the **OS/400** line has to be effected.

In the case of an **X32** line, define the **X32** type, and activate the line supervision and define the resource name. TBT/400 will define the line at the start-up of the sub-system.


**6.4. Atlas mailbox table**

If **ATLAS 400** option is used:

System configuration menu, definition of network identifications.

```

TBT/400  V410          CUSTOMER Company          02/01/01  14.00.00
IPS0171  Prod          Atlas 400 mailboxes definition  IPLS05    IPLSP
Mailbox   Line's      Applicat   Mailbox narrative      Server
Name      Name          Name
BAL0000001 *TBT      *TBT      Boite 1   Atlas              1XXXXXXXXX40
    
```


 **F10**

F1=Help F3=Exit F6=Print F7=Up F8=Down F9=Cmd F10=Zoom F13=Up F18=Curs  
 F21=Default F24=Down Copyright Informatique Pour Les Sociétés IPLS

```

TBT/400  V410          Customer Company          02/01/01  14.00.00
IPS9016  Prod          Atlas 400 mailbox items  IPLS05    IPLSP

Mailbox name . . . . . BAL0000001
Associated TBT/400 line . . . . . *TBT          F4 for list
Application for incoming messages . . . . . *TBT          F4 for list
Mailbox narrative . . . . . Boite 1 Atlas
Server's X25 address . . . . . 1XXXXXXXXX40
Organization name . . . . .
Organization unit A . . . . .
Name . . . . .
Password . . . . .
Implicit scrutation . . . . . Y              Y,N
Application selection . . . . .                  A,Z,C,O
    
```

 **F10**

F1=Help F3=Exit F6=Print F7=Up F8=Down F9=Cmd F13=Up F21=Default F24=Down  
 Copyright Informatique Pour Les Sociétés IPLS

In these menus, you must define the mailbox **BAL0000001** associated to the queue **\*TBT** (in the above example), and to input specifications (Server call number, Name, Organization, Password). You need to have forms sent by **ATLAS** following your subscription to mailbox service.

### 6.5. Graphnet mailboxes table

If GRAPHNET option is used:

System configuration menu, definition of network identifications.

```

TBT/400 V410          IPLS - AS400P - 170          02/01/01  14.00.00
IPS0173 Prod          Graphnet mailboxes definition  IPLS05    IPLSP
  Mailbox      Line's  Applicat      Mailbox narrative
  Name         Name    Name
BAL0000001 *TBT    *TBT    Graphnet

F1=Help F3=Exit F6=Print F7=Up F8=Down F9=Cmd F10=Zoom F13=Up F18=Curs
F21=Default F24=Down          Copyright Informatique Pour Les Sociétés      IPLS

```

 **F10**

```

TBT/400 V410          Customer Company          02/01/01  14.00.00
IPS9018 Prod          Graphnet mailbox items      IPLS05    IPLSP
  Mailbox name . . . . . BAL0000001
  Associated TBT/400 line . . . . . *TBT      F4 for list
  Application for incoming messages . . . . . *TBT      F4 for list
  Mailbox narrative . . . . . Graphnet
  Protocol . . . . . X
  Gnetmail - Bmail  Server's X25 address . . 19533482126
                        User's name . . . . . A1xxxxxxx
                        Password . . . . . YYYYY
  Megafax Plus      Server's X25 address . . 19533482127
                        User's name . . . . . mmmmmmm
                        Password . . . . . nnnn
  Megafax Plus - Ack Server's X25 address . . 19533482125
                        User's name . . . . . F1mmmmmm
                        Password . . . . . nnnn
  Billing mode . . . . . L          Position      Length
  Implicit scrutation . . . . . Y          Y,N          Int          10
  Application selection . . . . .          A,C,O
  Server level . . . . .          0,1,2
  Channels number . . . . .          1->9
F1=Help F3=Exit F6=Print F7=Up F8=Down F9=Cmd F13=Up F21=Default F24=Down
          Copyright Informatique Pour Les Sociétés      IPLS

```

In these menus you must define the box **BAL0000001** associated with the queue **e** (in the case of this example), and input the specifications (X25 address of Graphnet servers, User name, password). You need to be in possession of information regarding the account opened by GRAPHNET (Tel. 33 - 1 41 91 89 00).

**7. Odette parameterization**

If ODETTE option is used:

System configuration menu, servers definitions:

```

TBT/400  V410          Customer Company          02/01/01  14.00.00
IPS0192  Prod          Odette configuration      IPLS05    IPLSP

Default initiator partner . . . . . LOCAL001

SFID acceptance if unknown origin . . Y          Y,N
SFID acceptance if unknown destination Y          Y,N
Application selection . . . . . A              U,D,A
Default application . . . . . ODETTE          F4 for list

Error on 'duplicate' return-code . . . N          Y,N
'Duplicate file' detection . . . . . N          Y,N
Restart support . . . . . N                  Y,N
Inversed EERP . . . . . N                    Y,N,A
light syntax . . . . . Y                      Y,N

F1=Help F3=Exit F6=Print F9=Cmd
Copyright Informatique Pour Les Sociétés
IPLS
    
```

In order to bring about improvements to the TBT/400 software, IPLS reserves the right to modify some of the functions described above.

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