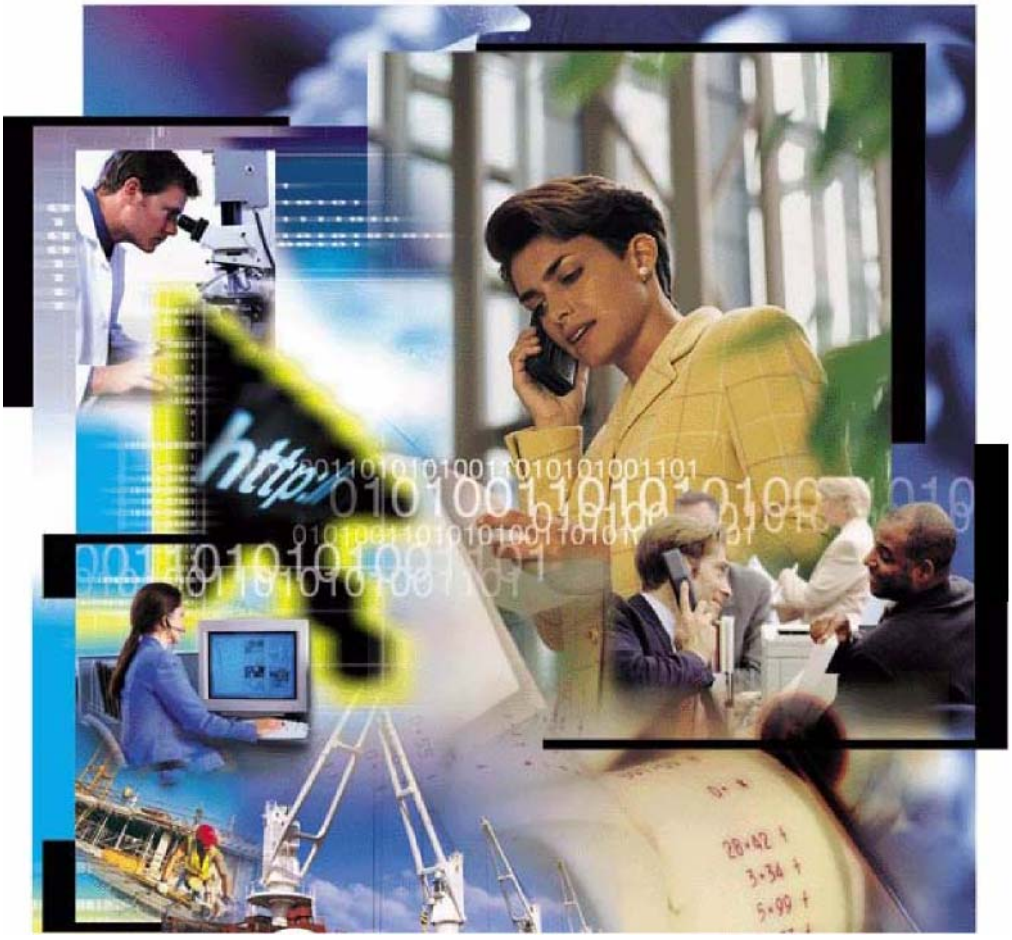
Expedite Base/400
Installation Guide



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Chapter 10

Expedite Base/400 installation overview

Expedite Base/400 is capable of communicating using SNA LU 6.2 or TCP/IP communications. This chapter contains an overview of the installation procedures for both communications protocols. Most of the steps mentioned here must be performed by your system programmer.

To connect to Information Exchange, you must have an Information Exchange account, user ID, and password. These items must be defined in the Expedite Base/400 profile before you attempt to connect to Information Exchange.

Downloading the Expedite Base/400 program

Before installing Expedite Base/400 4.6, verify that your system meets the system requirements described in "Understanding the Expedite Base/400 operating environment" on page 2, and then download the software files.

1. Download the software from the GXS website:
   http://www.gxsolc.com/public/EDI/us/support/Downloads/downloads_index.html.

2. Select the Expedite and Expedite Base option, and click **Continue.**
   The product page opens.

3. Select the **Expedite Base/400 4.6** radio button.

4. In the **Availability** field, select a country from the list.

5. Click **Continue.** The Expedite and Expedite Base logon page opens.

6. Type your user ID and password, and then click **Sign in.**

   NOTE: If this is the first time that you are downloading software from this Web site, click **I have not registered before** to obtain a user ID. User IDs are issued quickly, and you can return to this page almost immediately.

7. Complete the survey questions, as needed, and accept the license agreement. The software begins downloading.

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8. Save the zip files to your PC and unzip them.
   For example, if using PKZIP, type the following commands:
   pkunzip expblibr46.zip
   pkunzip expblibrm46.zip

Installing the Expedite Base/400 program

To install the Expedite Base/400 program, do the following:

1. Create two destination files on your AS/400 system. If you do not create these files, the restore process will not recognize the files as being in the SAVF format. You must create both destination files in the same directory.

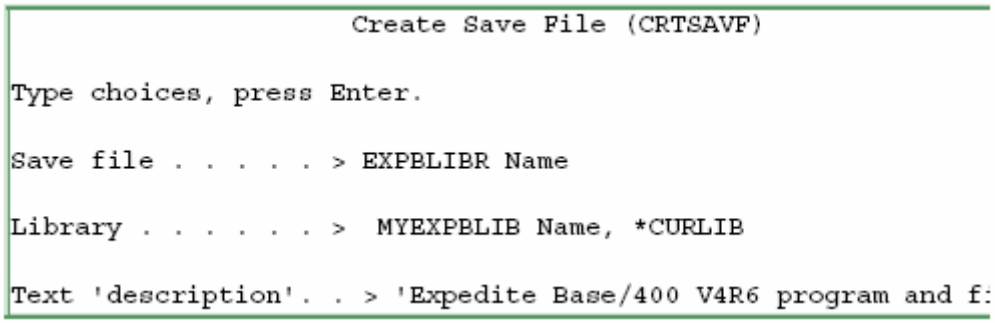
   NOTE: You can name the downloaded files EXPBLIBR and EXPBLIBRM, or you can change the names to better match your environment. If you have an earlier version of Expedite Base/400 installed, these library names are probably already in use, and you should not overwrite them.

   a. Type `CRT SAVF,` and then press F4 (Prompt).

   b. Type the first save file name, then the library name, and then press Enter.

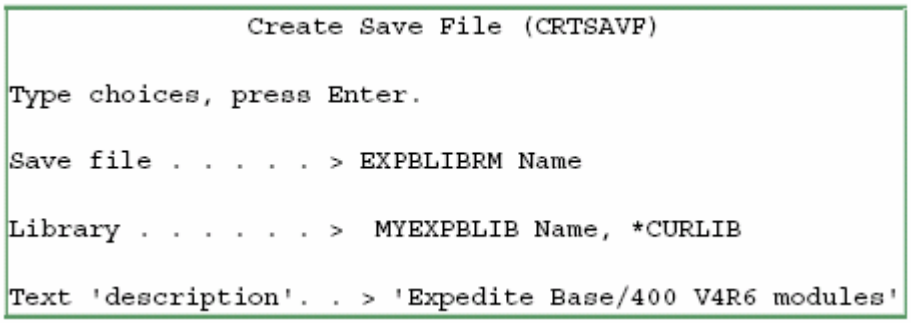
   NOTE: The library name must be that of an existing library on your system. If the library does not already exist, use the CRTLIB command to create it; for example: `CRTL IB MYEXPBLI.`

   The following is an example of the Create Save File panel.



   c. Type `CRT SAVF,` and then press F4 (Prompt).

   d. Type the second save file name, then type the library name, and press Enter. The following is an example of the Create Save File panel.



2. Use FTP to send the files from your PC to the AS/400 system, as follows:

   a. Open an FTP session from your PC to the AS/400 system.

   b. Use the FTP binary subcommand to set the transmission mode to **BINARY.**

   c. Verify that the current library is the library where you created the SAVF files. If it is not, use the FTP **cd** subcommand to change to the correct library, for example:
   `cd MYEXPBLIB.`

      NOTE: If you use the **dir** command to locate the library, the transmission mode is changed to ASCII. Make sure to reissue the binary subcommand before starting transmission.

   d. Using fully qualified file names, use the FTP subcommand to transfer both files to the AS/400 system, as follows:

      - `put expblibr [destination_AS/400_filename]`
      - `put expblibrm [destination_AS/400_filename]`

3. Restore the two Expedite Base/400 4.6 libraries by issuing the RSTLIB command for each save file, as follows:

   a. To restore the expblibr file, type the following command, and then press Enter.

```
RSTLIB SAVLIB (EXPBLIBR) DEV(*SAVF) SAVF(library/fileid)
RSTLIB (EXPBLIBR)
```

NOTES: The fully qualified name of the save file that you created in step 1 is *library/fileid.*

The SAVLIB parameter is the name of the library where the files were originally saved. This parameter is required and should not change.

The RSTLIB parameter is the name of the destination library. The second RSTLIB parameter value, *expblibr,* is a suggested name. You may choose to use a different name for your environment.

   b. To restore the expblibrm file, type the following command, and then press Enter.

```
RSTLIB SAVLIB (EXPBLIBRM) DEV (* SAVF) SAVF (library/fileid)
RSTLIB (EXPBLIBRM)
```

NOTES: EXPBLIBR contains the programs and files. EXPBLIBRM contains the modules (objects).
The fully qualified name of the save file that you created in step 1 is *library/fileid.*
The SAVLIB parameter is required and should not change.
The RSTLIB parameter value (EXPBLIBRM) is required and should not change.

Setting up SNA LU 6.2 communications

To enable SNA LU 6.2 communications with Expedite Base/400, you must order a logical unit (LU) name, define the LU name for your system, and configure the necessary communications descriptions. Detailed instructions are provided separately for NCP leased and for NCP dial connections. Values shown in the screen illustrations are only examples and users should verify whether the values are correct for their environment.

Ordering an LU name

Expedite Base/400 communicates with the Information Exchange front end. Before you can use Expedite Base/400, you must order the LU name that Expedite Base/400 uses when communicating with Information Exchange. In the U.S., the Information Exchange system is named *ibm0rely*.

Your GXS Sales representative can help you with your order. The order must include your local network identifier (LCLNETID). If you use a dial connection, you must also include your local control point name (LCLCPNAME) and Exchange Identifier (XID), which consists of IDBLK=056 and IDNUM=XXXXX (where XXXXX is a unique identifier for your AS/400).

Setting up an NCP leased connection

The following is an overview of the steps required to connect your AS/400 to the Information Exchange system through an NCP leased connection.

Defining the LU name to your system

After you have ordered the LU name for Expedite Base/400, you must define the LU name to your system per the following instructions.

1. Use the DSPNETA command to view the current network attributes of your system.

```
                    Display Network Attributes
                    System: MYOWNILU

Current system name. . . . . . . . . . . . . . . . . . . . :MYOWNILU
Pending system name. . . . . . . . . . . . . . . . . . . . :
Local network ID . . . . . . . . . . . . . . . . . . . . . . APPN
Local control point name . . . . . . . . . . . . . . . . . :MYOWNILU
Default local location. . . . . . . . . . . . . . . . . . . .MYOWNILU
Default mode. . . . . . . . . . . . . . . . . . . . . . . . . BLANK
APPN node type. . . . . . . . . . . . . . . . . . . . . . . .*ENDNODE
Data compression. . . . . . . . . . . . . . . . . . . . . . .*NONE
Intermediate data compression . . . . . . . . . . . . . . : *NONE
Maximum number of intermediate sessions . . :   200
Route addition resistance. . . . . . . . . . . . . . . . . .:128
Server network ID/control point name. . . . . . . :  *LCLNETID  *ANY
```

2. Create or update APPN location list entries (WRKCFGL) for either remote or local locations.

   To create a list, type 1 in the Opt field. To view keywords for each field, press F4.

   a. For a local location list, type **QAPPNLCL** in the **List** field.

b. For a remote location list, type **QAPPNRMT** in the **List** field.

```
                    Work with Configuration Lists

Position to . . . . .  Starting characters

Type options, press Enter.

1=Create  2=Change  3=Copy  4=Delete  5=Display  6=Print  7=Rename
8=Work with entries

Opt  List          Type       Text

1    QAPPNLCL
```

c. Press Enter.

The system displays the Create Configuration List panel.

```
                    Create Configuration List (CRTCFGL)

Type choices, press Enter.


Confirguration list type . . . . > *APPNLCL
Text 'description' . . . . . . . .   APPN LOCATION LIST
```

d. In the **Configuration list type** field, type a configuration list type name or select one from the value list.

e. In the **Text description** field, type a free-format description of the list type.

f. Press Enter. The system displays the list.

g. To update a list, type `2` in the **Opt** field, and then press Enter. The system displays the list

```
Local
Location          Text

Luname            Expedite Base/400 Local Location
```

```
Remote      Remote                  Remote      Control
Location    Network   Local         Control     Point      Secure
            ID        Location      Point       Net ID     Location

IBM0RELY    IBMIN     luname        IBMCP       IBMIN      *NO      (USA)
D77Z62IE    GBIBM000  luname        GBIBM10S/W  APPN       *NO      (Europe)
QZQB62I2    NETNMS1   luname        IBMCP       IBMIN      *NO      (Japan)
```

3. Define the mode description (CRTMODD).

```
Mode description. . . . . . . . . . . . . LU62
        (*note: In Europe, this value should be LU62SYS1)
Maximum sessions. . . . . . . . . . . . . 8
Maximum conversations . . . . . . . . . 8
Locally controlled sessions. . . . . . 4
Maximum inbound pacing value . . 7
Inbound pacing value . . . . . . . . . . . .7
Outbound pacing value. . . . . . . . . . .7
Maximum length of request unit . *CALC
Data compression . . . . . . . . . . . . . .*NETATR
Inbound data compression . . . . . *RLE
Outbound data compression. . . . . *RLE
Text 'description' . . . . . . . . . . . . . . .Exp/Base 400 Mode

      Additional Parameters

Class-of-service . . . . . . . . . . . . . . . #CONNECT
Authority . . . . . . . . . . . . . . . . . . . . .*LIBCRTAUT
```

4. Create the communications definitions.

   a. Define the line description (CRTLINSDLC).

NOTE: If your system already has a line description, you may choose to skip this step.

```
                    Create Line Desc (SDLC) (CRTLINSDLC)
Type choices, press Enter.

Line description . . . . . . . . . . . .EXPBLINE
Resource names . . . . . . . . . . . . .CMN02
                  + for more values.
Online at IPL . . . . . . . . . . . . . . .*YES
Data link role . . . . . . . . . . . . . . .*NEG
Physical interface . . . . . . . . . . .*RS232V24
Connection type. . . . . . . . . . . . .NONSWTPP
Switched network backup . . . *NO
Exchange identifier. . . . . . . . . 05600001
NRZI data encoding . . . . . . . . .*NO
                  (*note:  In Europe, this value should be set to *YES)
Line speed . . . . . . . . . . . . . . . . 19200
Modem type supported . . . . . . *NORMAL
Maximum frame size . . . . . . . .521
Duplex . . . . . . . . . . . . . . . . . . . .*FULL
Inactivity timer . . . . . . . . . . . . . .300
Poll response delay . . . . . . . . . .0
Nonproductive receive timer. . 320
Idle timer. . . . . . . . . . . . . . . . . . .30
Connect poll timer. . . . . . . . . . .30
Poll cycle pause . . . . . . . . . . . . . .0
Frame retry . . . . . . . . . . . . . . . . . .7
Text 'description' . . . . . . . . . . . .Expedite/Base 400 SNA Leased Line

Additional Parameters should remain at Defaults.
```

b. Define the host controller description (CRTCTLHOST).

NOTE: If your system already has a controller description, you may choose to skip this step.

Create Ctl Desc (SNA Host) (CRTCTLHOST)

Type choices, press Enter.

Controller description	EXPBCTL
Link type	*SDLC
Online at IPL	*YES
Switched connection	*NO
Switched network backup.	*NO
APPN-capable	*YES
Attached nonswitched line	EXPBLINE
Maximum frame size	*LINKTYPE
Remote network identifier	IBMIN
Remote control point	IBMCP
SSCP identifier	0521000000001
Local exchange identifier	*LIND
Station address.	C0
APPN CP session support	*NO
APPN node type.	*LENNODE
APPN/HPR capable	*YES
H/R path switching	*NO
APPN transmission group number	1
APPN minimum switched status	*VRYONPND
Autocreate device	*ALL
Autodelete device	1440
User-defined 1	*LIND
User-defined 2	*LIND
User-defined 3	*LIND
Recontact on vary off	*YES
Text 'description'	Expedite Base 400 Leased Controller

Additional Parameters should remain at Defaults.

c. Define the device description (CRTDEVAPPC).

Values supplied by network	Description
XX	Local location address
luname	Local location name

Create Device Desc (APPC) (CRTDEVAPPC)

Type choices, press Enter.

Device description	EXPBDEV
Remote location	IBM0RELY
Online at IPL	*NO
Local location	luname
Remote network identifier	IBMIN
Attached controller	EXPBCTL
Mode	LU62
+ for more values	
Message queue	QSYSOPR
Library	*LIBL
APPN-capable	*YES
Single session:	
Single session capable	*YES
Number of conversations	4
Locally controlled session	*NO
Text 'description'	Expedite Base 400 Device

Additional Parameters

Local location address	XX
Authority	*LIBCRTAUT

(*Note: AS400 Local location address (hex value) must match NCP Local Location Address (Decimal Value))

5. Include the LU name in the USERLUNAME parameter of the SNACOMM profile command as follows:

   snacomm ieluname(IBM0RELY) userluname(luname) ielumode(LU62)
   `ielunetid (IBMIN);`

6. Configure the Expedite Base/400 files to complete the installation process. See Chapter 2, “Setting up files,’’ for detailed information.

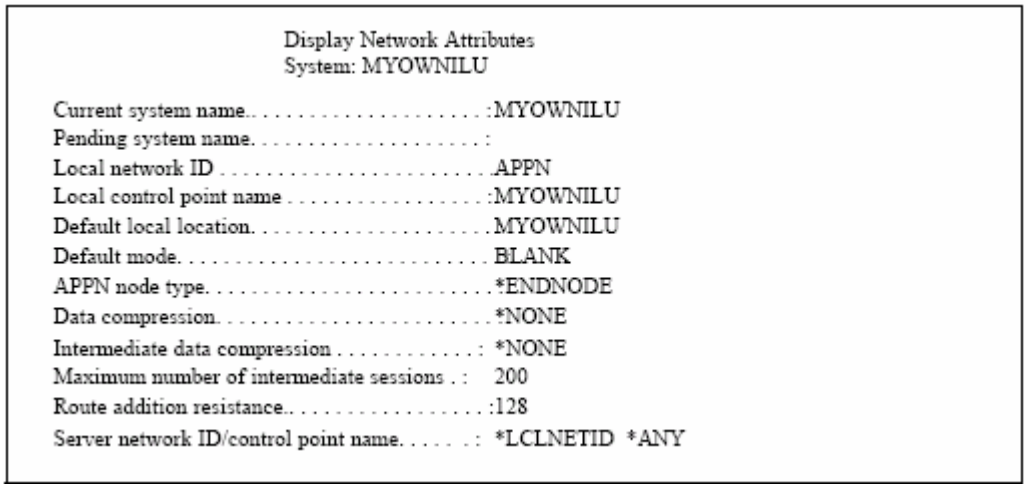
Setting up an NCP dial connection

The following is an overview of the steps required to connect your AS/400 to the Information Exchange system through an NCP dial connection.

Defining the LU name to your system

After you have ordered the LU name for Expedite Base/400, you must define the LU name to your system per the following instructions.

1. Use the DSPNETA command to view the current network attributes of your system.



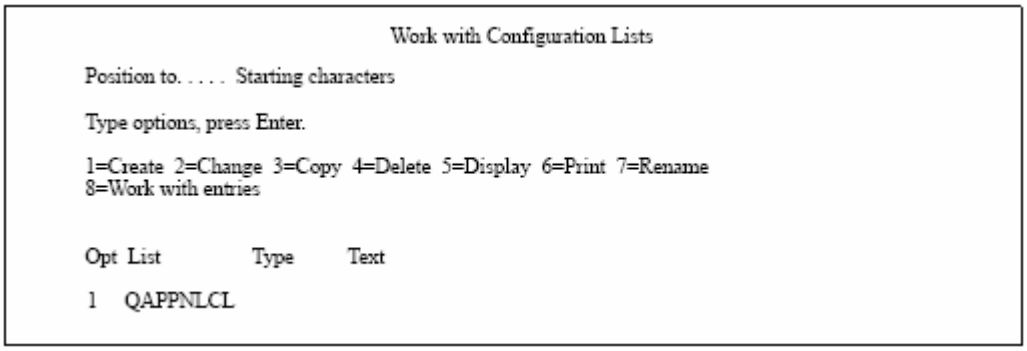
```
                    Display Network Attributes
                    System: MYOWNILU

Current system name. . . . . :MYOWNILU
Pending system name. . . . . :
Local network ID . . . . . .APPN
Local control point name . . . . . :MYOWNILU
Default local location. . . . . .MYOWNILU
Default mode. . . . . BLANK
APPN node type. . . . . .*ENDNODE
Data compression. . . . . .*NONE
Intermediate data compression . . . . . : *NONE
Maximum number of intermediate sessions . :  200
Route addition resistance. . . . . :128
Server network ID/control point name. . . . . :  *LCLNETID  *ANY
```

2. Create or update APPN location list entries (WRKCFGL) for either remote or local locations.

   To create a list, type **1** in the **Opt** field. To view keywords for each field, press F4.

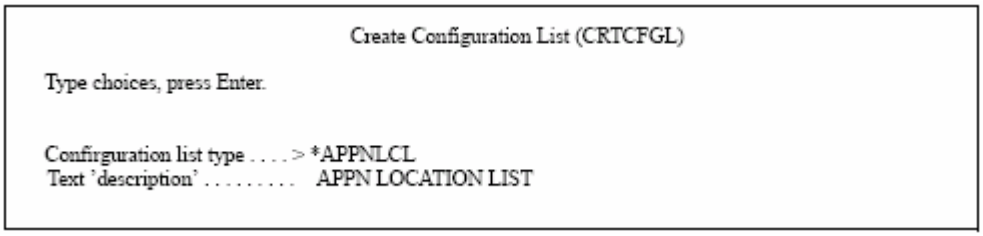
   a. For a local location list, type **QAPPNLCL** in the **List** field.

   b. For a remote location list, type **QAPPNRMT** in the **List** field.



```
                        Work with Configuration Lists

Position to. . . . .  Starting characters

Type options, press Enter.

1=Create  2=Change  3=Copy  4=Delete  5=Display  6=Print  7=Rename
8=Work with entries

Opt  List            Type        Text

1    QAPPNLCL
```

c. Press Enter. The system displays the Create Configuration List panel.



Create Configuration List (CRTCFGL)

Type choices, press Enter.

Configuration list type . . . . > *APPNLCL
Text 'description' . . . . . APPN LOCATION LIST

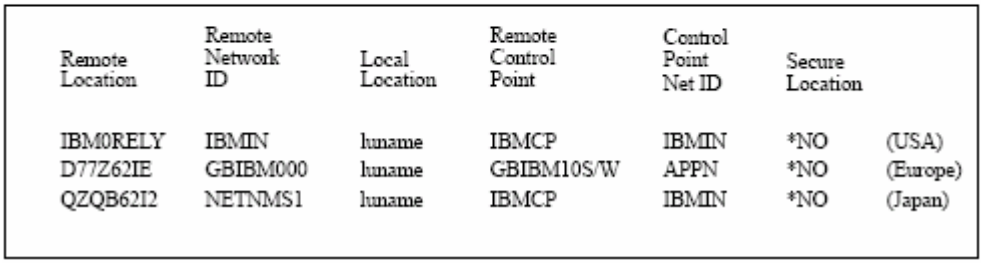
d. In the **Configuration list type** field, type a configuration list type name or select one from the value list.

e. In the **Text description** field, type a free-format description of the list type.

f. Press Enter. The system displays the list.

g. To update a list, type 2 in the **Opt** field, and then press Enter. The system displays the list.

Local Location	Text
Luname	Expedite Base/400 Local Location



Remote Location	Remote Network ID	Local Location	Remote Control Point	Control Point Net ID	Secure Location	
IBM0RELY	IBMIN	luname	IBMCP	IBMIN	*NO	(USA)
D77Z62IE	GBIBM000	luname	GBIBM10S/W	APPN	*NO	(Europe)
QZQB62I2	NETNMS1	luname	IBMCP	IBMIN	*NO	(Japan)

3. Define the mode description (CRTMODD).

```
Mode description . . . . . . . . . . . . . LU62
        (*note: In Europe, this value should be LU62SYS1)
Maximum sessions . . . . . . . . . . . . .8
Maximum conversations. . . . . . . . . . .8
Locally controlled sessions . . . . . 4

Maximum inbound pacing value . . 7
Inbound pacing value . . . . . .7
Outbound pacing value . . . . . .7
Maximum length of request unit. . *CALC
Data compression . . . . . .*NETATR
Inbound data compression. . . . . *RLE
Outbound data compression . . . . *RLE
Text 'description' . . . . . .Exp/Base 400 Mode

      Additional Parameters

Class-of-service . . . . . .#CONNECT
Authority . . . . . .*LIBCRTAUT
```

4. Create the communications definitions.

   a. Define the line description (CRTLINSDLC).

NOTE: If your system already has a line description, you may choose to skip this step.

Create Line Desc (SDLC) (CRTLINSDLC)

Type choices, press Enter.

Line description	EXPB400LIN
Resource names	CMN02
+ for more values	
Online at IPL	*NO
Data link role	*SEC
Physical interface	*RS232V24
Connection type	*SWTPP
Vary on wait	*NOWAIT
Autocall unit	*NO
Exchange identifier	05600001
NRZI data encoding	*NO
(*note: In Europe, this value should be set to *YES)	
Maximum controllers	1
Clocking	*MODEM
Line speed	9600
Modem type supported	*NORMAL
Switched connection type	*BOTH
Autoanswer	*NO
Autodial	*YES
Dial command type	*V25BIS
Calling number	*NONE
Station address	C1
Maximum frame size	521
Duplex	*HALF
Inactivity timer	300
Poll response delay	0
Data Set Ready drop timer	6
Autoanswer type	*DTR
Remote answer timer	60
Text 'description'	Expedite Base 400 line

Additional Parameters should remain at Defaults.

b. Define the host controller description (CRTCTLHOST).

NOTE: If your system already has a controller description, you may choose to skip this step.

Create Ctl Desc (SNA Host) (CRTCTLHOST)

Type choices, press Enter.

Controller description	EXPBCTL
Link type	*SDLC
Online at IPL	*YES
Switched connection	*YES
Short hold mode	*NO
APPN-capable	*YES
Switched line list . . .	EXPB400LIN
+ for more values	
Maximum frame size	*LINKTYPE
Remote network identifier . . .	IBMIN
Remote control point	IBMCP
SSCP identifier	052100000001
Local exchange identifier . . .	*LIND
Initial Connection	*DIAL
Dial initiation	*LINKTYPE
Connection Number	'1-800-759-9575'
Station address	C0
APPN CP session support	*NO
APPN node type	*LENNODE
APPN/HPR capable	*YES
H/R path switching	*NO
APPN transmission group number	1
APPN minimum switched status . .	*VRYONPND
Autocreate device	*ALL
Autodelete device	1440
User-defined 1	*LIND
User-defined 2	*LIND
User-defined 3	*LIND
Text 'description'	Expedite Base 400 Controller

Additional Parameters should remain at Defaults.

c. Define the device description (CRTDEVAPPC).

Values supplied by network	Description
XX	Local location address
luname	Local location name

Create Device Desc (APPC) (CRTDEVAPPC)

Type choices, press Enter.

Device description	EXPBDEV
Remote location	IBM0RELY
Online at IPL	*NO
Local location	luname
Remote network identifier . . .	IBMIN
Attached controller	EXPBCTL
Mode	LU62
+ for more values	
Message queue	QSYSOPR
Library	*LIBL
APPN-capable	*YES
Single session:	
Single session capable	*YES
Number of conversations . . .	4
Locally controlled session	*NO
Text 'description'	Expedite Base 400 Device

Additional Parameters

Local location address	XX
Authority.	*LIBCRTAUT

(*Note: AS400 Local location address (hex value) must match NCP Local Location Address (Decimal Value))

5. Include the LU name in the USERLUNAME parameter of the SNACOMM profile command as follows:

   snacomm ieluname(IBM0RELY) userluname(luname) ielumode(LU62)
   `ielunetid (IBMIN);`

6. Configure the Expedite Base/400 files to complete the installation process. See Chapter 2, “Setting up files,’’ for detailed information.

Setting up TCP/IP communications

To enable TCP/IP communications, you must consider the size of your network, the other applications you will be accessing through the worldwide network, and your hardware configuration. Network personnel will work with you to allow communications with Information Exchange.

Detailed instructions are provided for TCP/IP dial connections. Values shown in the screen illustrations are only examples, and users should verify whether the values are correct for their environment.

TCP/IP leased connections must be set up in conjunction with network personnel. Your network representative can assist you.

Setting up a TCP/IP dial connection

For best results, use the point-to-point (PPP) Internet protocol and OS/400 Version 4 Release 1 or Release 2. This protocol uses a PPP line description on the AS/400 system and is configured using the Operations Navigator component of Client Access for Windows 95/NT™. For more information, see *OS/400 TCP/IP Configuration and Reference* and *AS/400 Client Access for Windows 95/NT*.

The following section describes basic PPP configuration on the AS/400 for using TCP/IP communications with the worldwide network though a Local Interface Gateway (LIG).

Before you can use TCP/IP communications:

- The asynchronous modem that you will use for TCP/IP connectivity must be defined on your system.
- Your user ID must be authorized for TCP/IP Dial Services and for access to the Information Exchange/Expedite IP server. Contact the Help Desk if you need assistance with this step.

Configuring Point-to-Point Network Connections

Using PPP and a PPP line description requires an asynchronous modem and one of the following adaptors:

2699	Two-line AN IOA
2720	PCI WAN, twin-axial IPA
2721	PCI two-line WAN IOA
7852-400	Asynchronous, bisynchronous, SDLC

To verify that the correct adaptor is present on your system, use the following command:

```
wrkhdwrsc type (* cmn)
```

For testing purposes only, it may be possible to use the Electronic Customer Support modem on your AS/400.

Setting up the connection profile and PPP line description

You must create and activate a connection profile for using PPP over a PPP line description. For additional information on any field, click on the item in question and press **F1.**

To create a connection profile:

1. In the main tree of Operations Navigator, click on your AS/400 server to expand the tree.
2. Click **Network,** and then **Point-to-Point.**
3. Right-click **Connection Profiles** to open a context menu.
4. Select **New Profile.**
5. Click the **General** tab and enter the following information:

In this field:	Type or select:
Profile name	The name of this connection profile. Use 1 to 9 alpha-numeric characters.
Profile description	A free-form description of this connection profile.
Type	PPP
Mode	Switch line-dial

6. Click the **Connection** tab and enter the following information:

In this field:	Type or select:
Add remote phone number	Select this option.
LIG dial access number	Type the telephone number for your area. If needed for your telephone system, add a dial-out access code (such as 9). If you are unsure of the correct local LIG access telephone number, contact the Help Desk.
Line name	Select this option.
PPP line description	Select a line description from the **Line** field value list. To create a PPP line description, see “Creating or changing line descriptions” on page 204 for more information.
Redial on Disconnect	Select this option.
Line activity timeout	Type 300 seconds.

7. Click the TCP/IP tab and verify that the settings are correct. Both the Local IP and Remote IP addresses will be dynamically assigned by the LIG.

8. Click the **Routing** tab and enter the following information:

In this field:	Type or select:
Dynamic routing	Select None.
Static routing	Select this option.
Route	Type the Expedite server IP address (32.76.15.6 in the U.S.) and mask (255.255.255.255).

9. To setup system authentication, click the **Authentication** tab and enter the following information:

In this field:	Type or select:
Enable Local System Identification	Select this option.
Pap Only	Select this option.
User Name	Type your user name in the format: secureip.*acct. userid,* where *acct* is your 4-digit network account ID and *userid* is your network user ID.

10. At the password prompt, type your current network password.

11. Click **OK** repeatedly until you are returned to the list of Connection Profiles.

12. To initiate a dial connection, right-click on the appropriate PPP profile, and then click **Start.**

13. Run Expedite Base/400 to communicate with Information Exchange. When done, click **Stop** to end your dial session. This is the only time you will need to manually stop a dial session. From now on, Expedite Base/400 will end sessions automatically when processing has completed.

Creating or changing line descriptions

1. Do one of the following:

   - To set up a line description, type a name for the line description in the **Line** field, and then click **New.**
   - To change the properties of a line description, select a line description in the Line field list and click **Open.**

2. Click the **General** tab and highlight the appropriate hardware resource in the **Hardware Resource** list. The interface type must be RS232/V.24.

3. Click the **Connection** tab and enter the following information:

In this field:	Type or select:
Dial command type connection	Select AT command set.
CTS timeout	Type 60 seconds.
Dial capability	Select this option.

4. Click the **Link** tab and specify the maximum line speed supported by your hardware in the **Line Speed** field.
5. Click the **Modem** tab and select your modem from the **Name** value list.
6. Click **OK** to save the new or changed properties. The system will return you to the PPP profile definition.

Obtaining and managing certificates for use with SSL

Before you can begin using SSL communications with Expedite Base/400, make sure that the required software has been installed on your system. You must also install Digital Certificate Manager (DCM) to use SSL with TCP/IP communication to Information Exchange.

NOTE: You need SECOFR user authority to work with DCM.

Obtaining a certificate

To obtain a certificate, do the following:

1. Using your browser, navigate to the PKI Web site (https://pki.services.ibm.com).
2. Obtain a client and PKI Services Root CA Certificate.
   a. Create a certificate using the instructions on the Web site https://pki.services.ibm.com/.
   b. Export your certificate to files using the instructions on the Web site under the heading **Method 2: Exporting your client certificate and CA as separate files.** When you export the certificate, make sure that **Include all certificates in the certificate path if possible** is not selected.
   c. Download a copy of the PKI Services Root CA Certificate from the PKI Web site at: http://pki.services.ibm.com/expedite/webdocs.shtml#ca .
3. FTP the certificate files to the AS/400.
   a. After logging in, change to a directory of your choice; for example, `/tmp` .
   b. Change to binary mode.
   c. Transfer the PKCS#12 client file, which was exported from your Internet Explorer browser, to the AS/400.
   d. In the same way, transfer the PKI Services Root CA Certificate to the AS/400.

Managing Certificates in DCM

To manage certificates in DCM, do the following:

1. Using Internet Explorer, go to http://*AS400HOST*:2001, where AS400HOST is the IP address of your AS400.
   The Enter Network Password window opens.

2. Type your AS/400 ID and password, and then click **OK.**
   The main AS/400 Tasks page opens.

3. Click **Digital Certificate Manager.**
   The Digital Certificate Manager page opens.

4. Click **Select a Certificate Store.**

5. To assign a certificate to an application ID, select ***SYSTEM,** and click **Continue.** The confirmation message displays.

   NOTE: If the *SYSTEM store does not exist, you can create one by selecting the **Create New Certificate Store** link in the left linklist.

6. In the left navigation bar, click **Manage Certificates.** The Manage Certificates page opens.

7. Select **Import Certificate,** and then click **Continue.** The Import Certificate page opens.

8. Select **Certificate Authority (CA),** and click **Continue.** The Import Certificate Authority (CA) Certificate page opens.

9. In the **Import file** field, type the location of the PKI Services Root CA certificate, and then click **Continue.**

   The Import Certificate Authority (CA) Certificate page refreshes, showing the CA certificate label field.

10. In the **CA certificate label** field, type a label for the certificate, such as PKI Services Root CA, and then click **Continue.**

    The PKI Services Root CA is imported.

11. On the Import Certificate page, in the left navigation bar, click **Import certificate.** The Import Certificate page refreshes.

12. Select **Server or client,** and then click **Continue.** The Import Server or Client Certificate page opens.

13. Type the name of the PKCS#12 client file that you transferred to your AS/400, and click **Continue.**

    The certificate password page opens.

    NOTE: **Include all certificates in the certificate path if possible** should **not** have been selected when you exported your certificate from Internet Explorer.

14. In the **Password** field, type the password for the PKCS#12 file, and click **Continue.** The Import Server or Client Certificate page refreshes, showing that the certificate was imported.

    NOTE: You do not need to click **OK.**

15. In the left navigation bar, click **Manage Applications** to expand it.

16. Click **Add application,** and click **Continue.** The Add Application page opens.

17. Select **Client,** and click **Continue.**

18. In the **Application ID** field, type the name of your application.

    This should be a value that you can associate easily with Expedite Base/400 and your Information Exchange user ID.

19. In the **CA trust list** field, select **Yes.**

20. In the **Application description** field, type `Expedite with SSL,` or the description of your choice.

21. Click **Add.** The Certificate is added.

    NOTE: You do not need to click **OK.**

22. In the left navigation bar, select **Update certificate assignment.** The Update Certificate Assignment page opens.

23. Select **Client,** and click **Continue.** The Update Certificate Assignment detail page opens.

24. Select the radio button for the application that you just added, and click **Update Certificate Assignment.**

25. Select the certificate that you just imported.

    NOTE: The Certificate Name may or may not be recognizable, but the Common name should be recognizable.

26. Click **Assign New Certificate.**

27. Select **Client,** and click **Continue.** The Application type page opens.The certificate configuration is now complete.

28. Make sure that the Account/Userid and Application ID information in INPRO and INMSG match the information in the certificate, and then run Expedite.

This process is complete.

Expedite Base/400 objects

Expedite Base/400 contains the following objects in the main library, *EXPBLIBR:*

- AUDITFMT
  This sample COBOL language program can be used to format level 1 audit records from Information Exchange. *AUDITFMT* source code is located in the SAMPLESCR file.

- CRTIEBASER
  This program is supplied to rebind the IEBASER program. Use this program only when specified by the Help Desk. *CRTIEBASER* source code is located in the SAMPLESRC file.

- ERRORCMP
  This file contains the error messages issued when Comm-Press encounters an error.

- ERRORMSG
  This file contains the error messages issued when Expedite Base/400 encounters an error.

- ERRORTXT
  This file contains the explanations and appropriate user responses for the error messages in ERRORMSG.

- IEBASE
  This stand-alone program for Expedite Base/400 calls *IEBASEPR , INMSGP, IEBASER, IEBASEPO,* and *OUTMSGP.* The *INMSGP* and *OUTMSGP* programs are present only if you have the supported data compression software.

  NOTE: All user programs should call this program.

- IEBASER
  This is the main program that provides all the functions of Expedite Base/400.

  NOTE: User programs should *not* call this program. (See *IEBASE.)*

- IEBASEPO
  This program checks the message response file, OUTMSG, for compressed files, and verifies the presence of the *OUTMSGP* program required for data decompression.

- IEBASEPR
  This program checks the COMPRESS() parameter, and verifies the presence of the *INMSGP* program required for data compression.

- SAMPLESRC
  This file contains sample source code for Expedite Base/400 related programs.

- STRIEBASE
  This program can be used to run *IEBASE;* it replaces CALL IEBASE PARM(RESET).

- XINMSG
  This file contains sample message commands that can be used to run sample sessions.

- XINPRO
  This file contains sample profile command files that can be used to run sample sessions.
- XQUALTBL
  This file contains QUALTBL examples that can be used for transmitting EDI data.
- XTCPIPADD
  This file contains the TCPCOMM commands that can be used to connect to Information Exchange using TCP/IP.
- XTTABLE01
  This file contains TTABLE01 examples that can be used for transmitting EDI data.