

APPENDIX C: EXAMPLE CONFIGURATIONS

The following examples are provided for first time communications users. The examples are provided to assist in configuring APPC communications. If you are currently using Display Station Passthru, or other utilities which uses APPC the examples will not apply.

S/38 to S/36, S/38 Example Configuration

The following example illustrates a System/38 connected as the primary to a System/36 and a System/38.

System/38 A

```
CRTLIND LIND(LINE1) LINNBR(A3) TYPE(*SDLC) CNN(*MP) RATE(009600)
NONRTNZ(*YES) WIRE(4 4) DCEGRP(*A) EXCHID(02200000) TEXT('Line 1')
```

```
CRTCUD CUD(S36) TYPE(*PEER) MODEL(0000) CTLADR(01A3) LINE(LINE1)
EXCHID(03E00001) DLYFEAT(*YES) LINKTYPE(*SDLCSEC) TEXT('System/36')
```

```
CRTDEVD DEVD(S36) DEVADR(0101A3) DEVTYPE(*PEER) MODEL(0000) CTLU(S36)
LCLLU(S38A) RMTLU(S36) TEXT('System/36')
```

```
ADDDEVMODE DEVD(S36) MODE(RSPOOL) MAXSSN(16) PREBNDSSN(1) MAXSRCSSN(8)
MAXCNV(16) INPACING(3) OUTPACING(3) MAXLENRU(512)
```

```
CRTCUD CUD(S38B) TYPE(*PEER) MODEL(0000) CTLADR(02A3) LINE(LINE1)
EXCHID(02200002) DLYFEAT(*YES) LINKTYPE(*SDLCSEC) TEXT('System/38 B')
```

```
CRTDEVD DEVD(S38B) DEVADR(0102A3) DEVTYPE(*PEER) MODEL(0000) CTLU(S38B)
LCLLU(S38A) RMTLU(S38B) TEXT('System/38 B')
```

```
ADDDEVMODE DEVD(S38B) MODE(RSPOOL) MAXSSN(16) PREBNDSSN(1) MAXSRCSSN(8)
MAXCNV(16) INPACING(3) OUTPACING(3) MAXLENRU(512)
```

```
CRTJOB JOB(RSPOOL) TEXT('Remote SpoolPrint/3X/400')
```

```
CRTUSRPRF USRPRF(RSPOOL) PASSWORD(*NONE) PTYLM(1) SPCAUT(*JOBCTL)
JOB(RSPOOL) TEXT('Remote Spool Print/3X/400')
```

```
CHGJOB JOB(RSPOOL) USRPRF(RSPOOL)
```

```
ADDCMNE SBS(xxxxx) DEV(S36) MODE(RSPOOL) JOB(RSPOOL) DFTUSR(RSPOOL)
```

```
ADDCMNE SBS(xxxxx) DEV(S38B) MODE(RSPOOL) JOB(RSPOOL) DFTUSR(RSPOOL)
```

Note: The subsystem to contain the above routing entry is your choice. Consider the following suggestions:

The subsystem's maxjobs parameter should not be restricted. Therefore we do not recommend using QBATCH.

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The subsystem must have a routing entry of *PGMEVOKE before the *ANY entry. See QINTER or QSNADS for an example.

If you frequently terminate your interactive subsystem we do not recommend adding the communications entry to it.

The above JOB, USRPRF, and ADDCMNE commands are only used if the System/38 is the target system. The job, usrprf, and addcmne are only used by CPF to determine which subsystem and job user name to assign tasks evoked from other systems, and are not needed if the system is the source to the other system. Examples: If people are passing thru into this system the above are needed. If remote writers are defined on the other system which move output into this system, the above are needed.

Avoid having the same DEVD/MODE specified in two or more subsystems' communications entries. If the same DEVD/MODE is in two (or more) subsystems, the subsystem started first will allocate the DEVD/MODE.

We recommend that you have separate device mode entries for interactive and printers . This will allow you to tailor the device mode's the pacing count and RU size such that printing tasks have a minimum impact on interactive response time. Please note that printers connected to a remote control unit (i.e. 5294) cannot be tailored in this fashion.

System/38 B

```
CRTLIND LIND(LINE1) LINNBR(20) TYPE(*SDLCS) CNN(*MP) STNADR(02) RATE(009600)
NONRTNZ(*YES) WIRE(4 4) DCEGRP(*A) EXCHID(02200002) TEXT('Line 1')
```

```
CRTCUD CUD(S38A) TYPE(*PEER) MODEL(0000) CTLADR(0120) LINE(LINE1)
EXCHID(02200000) LINKTYPE(*SDLCPRI) TEXT('System/38 A')
```

```
CRTDEV D DEV(D(S38A) DEVADR(010120) DEVTYPE(*PEER) MODEL(0000) CTLU(S38A)
LCLU(S38B) RMTLU(S38A) TEXT('System/38 A')
```

```
ADDDEV D DEV(D(S38A) MODE(RSPOOL) MAXSSN(16) PREBNDSSN(1) MAXSRCSSN(8)
MAXCNV(16) INPACING(3) OUTPACING(3) MAXLENRU(512)
```

```
CRTJOB D JOB(D(RSPOOL) TEXT('Remote SpoolPrint/3X/400')
```

```
CRTUSRPRF USRPRF(RSPOOL) PASSWORD(*NONE) PTYLMT(1) SPCAUT(*JOBCTL)
JOB(D(RSPOOL) TEXT('Remote Spool Print/3X/400')
```

```
CHGJOB D JOB(D(RSPOOL) USRPRF(RSPOOL)
```

```
ADDCMNE SBSD(XXXXX) DEV(D(S38B) MODE(RSPOOL) JOB(D(RSPOOL) DFTUSR(RSPOOL)
```

(Please refer to the notes on adding communications entries listed earlier.)

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System/36

- 1) Configure the communications line:

SETCOMM 1,MULTTRIB,NOLOCK,NRZI,NOCONCAR,,,,,IBMLPDA,,9600BPS,0

- 2) Configure ICF Line Member:

- a) Enter Command CNFIGICF

- b) Screen 1.0:

1. Configuration member name	LINE1
2. Library name	COMM
3. Select	1

- c) Screen 2.0

Option:	3 (SNA)
---------	---------

- d) Screen 4.0:

1. SNA member type	2 (SNA/SDLC line mbr)
2. Will APPC or APPN be used?	Y

- e) Screen 12.0

1. Data Link Protocol	2 (Secondary)
2. Line Type	1 (Nonswitched)
5. Local System's Station Addr	01
6. Local System's XID in hex	00001

- f) Screen 12.5:

1. Option	1 (Create)
2. Remote System Name	S38A

- g) Screen 13.0

1. Remote System Type	2 (Peer)
3. Remote system's block	022
4. Remote system's Station XID	00000

- h) Screen 12.5:

CMD-7 (End)

- 3) Configure ICF Subsystem Member:

- a) Screen 1.0:

1. Configuration member name	AS400A
2. Library name	COMM
3. Select	1 (Create)

- b) Screen 2.0:

1. Select	3 (SNA)
-----------	---------

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- c) Screen 4.0:
 - 1. SNA member type 1 (SNA Subsystem mbr)

- d) Screen 21.0:
 - 1. Select subsystem type 6 (APPC)
(Press ENTER)
 - 2. Line member name LINE1

- e) Screen 22.0:
 - 1. Local location name S36

- f) Screen 29.0:
 - 1. Select 1 (Create)
 - 2. Remote location name S38A
 - 3. Remote system name S38A

- g) Screen 30.0:
 - 1. Activate location at ENABLE Y
 - 2. Send alerts to this location N

- h) Screen 41.0:
 - 1. Single-session location N
 - 2. Stay operational Y

- i) Screen 42.0:
 - 1. Select 1 (Create)
 - 2. Session Group Name RSPPOOL

- j) Screen 43.0:
 - 1. Session group type 2 (Batch)
 - 2. Maximum session limit 32
 - 3. Nbr of locally cntr sessions 16
 - 4. Nbr of pre-established sessions 01

- k) Screen 44.0:
 - 1. Receive pacing value 03
 - 2. Maximum receive RU size 512
 - 3. Acquire remotely cntrd sessions Y

- l) Screen 42.0:
 - Press CMD-7 (End)

- m) Screen 29.0:
 - Press CMD-7 (End)

- n) Screen 1.0:
 - Press CMD-7 (Exit ICF)

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S/36 to S/36 Example Configuration

System/36 A

- 1) Configure the communications line:

```
SETCOMM 1,NONSWTCH,NOLOCK,NRZI,NOCONCAR,,,,,IBMLPDA,,9600BPS,0
```

- 2) Configure ICF Line Member:

- a) Enter Command CNFIGICF

- b) Screen 1.0:

1. Configuration member name	S36BLINE
2. Library name	COMM
3. Select	1

- c) Screen 2.0:

Option	3 (SNA)
--------	---------

- d) Screen 4.0:

1. SNA member type	2 (SNA/SDLC line mbr)
2. Will APPC or APPN be used?	Y

- e) Screen 12.0:

1. Data Link Protocol	1 (Primary)
2. Line Type	1 (Nonswitched)
6. Local System's XID in hex	00000

- f) Screen 12.5:

1. Option	1 (Create)
2. Remote System Name	S36B

- g) Screen 13.0:

1. Remote System Type	2 (Peer)
2. Remote System's station address	01
3. Remote system's block	03E
4. Remote system's Station XID	00001

- h) Screen 12.5:

CMD-7 (End)

- 3) Configure ICF Subsystem Member:

- a) Screen 1.0:

1. Configuration member name	S36BSUB
2. Library name	COMM
3. Select	1 (Create)

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- b) Screen 2.0:
1. Select 3 (SNA)
- c) Screen 4.0:
1. SNA member type 1 (SNA Subsystem mbr)
- d) Screen 21.0:
1. Select subsystem type 6 (APPC)
(Press ENTER)
2. Line member name S36BLINE
- e) Screen 22.0:
1. Local location name S36A
- f) Screen 29.0:
1. Select 1 (Create)
2. Remote location name S36B
3. Remote system name S36B
- g) Screen 30.0:
1. Activate location at ENABLE Y
2. Send alerts to this location N
- h) Screen 41.0:
1. Single-session location N
2. Stay operational Y
- i) Screen 42.0:
1. Select 1 (Create)
2. Session Group Name RSPPOOL
- j) Screen 43.0:
1. Session group type 2 (Batch)
2. Maximum session limit 16
3. Nbr of locally cntr sessions 08
4. Nbr of pre-established sessions 01
- k) Screen 44.0:
1. Receive pacing value 03
2. Maximum receive RU size 512
3. Acquire remotely cntrd sessions Y
- l) Screen 42.0:
Press CMD-7 (End)
- m) Screen 29.0:
Press CMD-7 (End)

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- n) Screen 1.0:
Press CMD-7 (Exit ICF)

System/36 B

- 1) Configure the communications line:

```
SETCOMM  
1,NONSWTCH,NOLOCK,NRZI,NOCONCAR,,,,,IBMLPDA,,9600BPS,0
```

- 2) Configure ICF Line Member:

- a) Enter Command CNFIGICF

- b) Screen 1.0:

1. Configuration member name	S36ALINE
2. Library name	COMM
3. Select	1

- c) Screen 2.0:

Option:	3 (SNA)
---------	---------

- d) Screen 4.0:

1. SNA member type	2 (SNA/SDLC line mbr)
2. Will APPC or APPN be used?	Y

- e) Screen 12.0:

1. Data Link Protocol	2 (Secondary)
2. Line Type	1 (Nonswitched)
5. Local System's Station Addr	01
6. Local System's XID in hex	00001

- f) Screen 12.5:

1. Option	1 (Create)
2. Remote System Name	S36A

- g) Screen 13.0:

1. Remote System Type	2 (Peer)
3. Remote system's block	03E
4. Remote system's Station XID	00000

- h) Screen 12.5:

CMD-7 (End)

- 3) Configure ICF Subsystem Member:

- a) Screen 1.0:

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- | | |
|---|-----------------------|
| 1. Configuration member name | S36ASUB |
| 2. Library name | COMM |
| 3. Select | 1 (Create) |
| b) Screen 2.0: | |
| 1. Select | 3 (SNA) |
| c) Screen 4.0: | |
| 1. SNA member type | 1 (SNA Subsystem mbr) |
| d) Screen 21.0: | |
| 1. Select subsystem type
(Press ENTER) | 6 (APPC) |
| 2. Line member name | S36ALINE |
| e) Screen 22.0: | |
| 1. Local location name | S36B |
| f) Screen 29.0: | |
| 1. Select | 1 (Create) |
| 2. Remote location name | S36A |
| 3. Remote system name | S36A |
| g) Screen 30.0: | |
| 1. Activate location at ENABLE | Y |
| 2. Send alerts to this location | N |
| h) Screen 41.0: | |
| 1. Single-session location | N |
| 2. Stay operational | Y |
| i) Screen 42.0: | |
| 1. Select | 1 (Create) |
| 2. Session Group Name | RSPOOL |
| j) Screen 43.0: | |
| 1. Session group type | 2 (Batch) |
| 2. Maximum session limit | 16 |
| 3. Nbr of locally cntr sessions | 08 |
| 4. Nbr of pre-established sessions | 01 |
| k) Screen 44.0: | |
| 1. Receive pacing value | 03 |
| 2. Maximum receive RU size | 512 |
| 3. Acquire remotely cntrd sessions | Y |
| l) Screen 42.0: | |
| Press CMD-7 (End) | |

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m) Screen 29.0:
Press CMD-7 (End)

n) Screen 1.0:
Press CMD-7 (Exit ICF)

AS/400 to S/36, S/38, AS/400 Example

The following example shows an AS/400 connected to an AS/400, a S/38, and a S/36.

AS/400 A

```
CRTLNSDLC LIND(LINE1) RSRcname(LIN011) ROLE(*PRI) CNN(*MP) EXCHID(05600000)
MAXCTL(32) TEXT('Line 1')
```

```
CRTMODD MODD(RSPOOL) MAXSSN(16) MAXCNV(16) LCLCTLSSN(8) PREESTSSN(1)
INPACING(3) OUTPACING(3) MAXLENRU(512) TEXT('Remote SpoolPrint/3X/400')
```

```
CRTCTLAPPC CTLD(AS400B) LINKTYPE(*SDLC) APPN(*NO) LINE(LINE1)
RMTNETID(*NONE) EXCHID(05600001) STNADR(01) TEXT('AS/400 B')
```

```
CRTDEVAPPC DEVD(AS400B) RMTLOCNAME(AS400B) LCLLOCNAME(AS400A)
RMTNETID(*NONE) CTL(AS400B) MODE(*NETATR RSPOOL) APPN(*NO)
```

```
CRTCTLAPPC CTLD(S38) LINKTYPE(*SDLC) APPN(*NO) LINE(LINE1) RMTNETID(*NONE)
EXCHID(02200002) STNADR(02) TEXT('S/38')
```

```
CRTDEVAPPC DEVD(S38) RMTLOCNAME(S38) LCLLOCNAME(AS400A) RMTNETID(*NONE)
CTL(S38) MODE(*NETATR RSPOOL) APPN(*NO)
```

```
CRTCTLAPPC CTLD(S36) LINKTYPE(*SDLC) APPN(*NO) LINE(LINE1) RMTNETID(*NONE)
EXCHID(03E00003) STNADR(03) TEXT('S/36')
```

```
CRTDEVAPPC DEVD(S36) RMTLOCNAME(S36) LCLLOCNAME(AS400A) RMTNETID(*NONE)
CTL(S36) MODE(*NETATR RSPOOL) APPN(*NO)
```

In this example, subsystem QCMN must be started prior to sending output to AS/400 A using Remote SpoolPrint3X/400.

AS/400 B

```
CRTLNSDLC LIND(LINE1) RSRcname(LIN011) CNN(*MP) ROLE(*SEC) EXCHID(05600001)
TEXT('Line 1') CRTMODD MODD(RSPOOL) MAXSSN(16) MAXCNV(16) LCLCTLSSN(8)
PREESTSSN(1) INPACING(3) OUTPACING(3) MAXLENRU(512) TEXT('Remote
SpoolPrint/3X/400')
```

```
CRTCTLAPPC CTLD(AS400A) LINKTYPE(*SDLC) APPN(*NO) LINE(LINE1)
```

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RMTNETID(*NONE) EXCHID(05600000) STNADR(01) TEXT('AS/400 A')

CRTDEVAPPC DEVD(AS400A) RMTLOCNAME(AS400A) LCLLOCNAME(AS400B)

RMTNETID(*NONE) CTL(AS400A) MODE(*NETATR RSPOOL) APPN(*NO)

In this example, subsystem QCMN must be started prior to sending printed output to AS/400 B using Remote SpoolPrint/3X/400.

System/38

CRTLIND LIND(LINE1) LINNBR(20) TYPE(*SDLCS) CNN(*MP) STNADR(02) RATE(009600)

NONRTNZ(*YES) WIRE(4 4) DCEGRP(*A) EXCHID(02200002) TEXT('Line 1')

CRTCUD CUD(AS400A) TYPE(*PEER) MODEL(0000) CTLADR(0120) LINE(LINE1)

EXCHID(05600000) LINKTYPE(*SDLCPRI) TEXT('AS400')

CRTDEVDEV DEVD(AS400A) DEVADR(010120) DEVTYPE(*PEER) MODEL(0000) CTLU(AS400A)

LCLLU(S38) RMTLU(AS400A) TEXT('AS/400 A')

ADDDEVMODE DEVD(AS400A) MODE(RSPOOL) MAXSSN(16) PREBNDSSN(1)

MAXSRCSSN(8) MAXCNV(16) INPACING(3) OUTPACING(3) MAXLENRU(512)

CRTJOB JOB(RSPOOL) TEXT('Remote SpoolPrint/3X/400')

CRTUSRPRF USRPRF(RSPOOL) PASSWORD(*NONE) PTYLMT(1) SPCAUT(*JOBCTL)

JOB(RSPOOL) TEXT('Remote Spool Print/3X/400')

CHGJOB JOB(RSPOOL) USRPRF(RSPOOL)

ADDCMNE SBS(xxxxx) DEV(S38B) MODE(RSPOOL) JOB(RSPOOL) DFTUSR(RSPOOL)

(Please refer to the notes on adding communications entries listed earlier.)

System/36:

1) Configure the communications line:

SETCOMM 1,MULTTRIB,NOCLOCK,NRZI,NOCONCAR,,,,,IBMLPDA,,9600BPS,0

2) Configure ICF Line Member:

a) Enter Command CNFIGICF

b) Screen 1.0:

1. Configuration member name	LINE1
2. Library name	COMM
3. Select	1

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c) Screen 2.0:

Option: (SNA)

d) Screen 4.0:

1. SNA member type 2 (SNA/SDLC line mbr)
2. Will APPC or APPN be used? Y

e) Screen 12.0:

1. Data Link Protocol 2 (Secondary)
2. Line Type 1 (Nonswitched)

5. Local System's Station Addr 03
6. Local System's XID in hex 00003

f) Screen 12.5:

1. Option 1 (Create)
2. Remote System Name AS400A

g) Screen 13.0:

1. Remote System Type 2 (Peer)

3. Remote system's block 056
4. Remote system's Station XID 00000

h) Screen 12.5:

CMD-7 (End)

3) Configure ICF Subsystem Member:

a) Screen 1.0:

1. Configuration member name AS400A
2. Library name COMM
3. Select 1 (Create)

b) Screen 2.0:

1. Select 3 (SNA)

c) Screen 4.0:

1. SNA member type 1 (SNA Subsystem mbr)

d) Screen 21.0:

1. Select subsystem type 6 (APPC)
(Press ENTER)
2. Line member name LINE1

e) Screen 22.0:

1. Local location name S36

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- f) Screen 29.0:
- | | |
|-------------------------|------------|
| 1. Select | 1 (Create) |
| 2. Remote location name | AS400A |
| 3. Remote system name | AS400A |
- g) Screen 30.0:
- | | |
|---------------------------------|---|
| 1. Activate location at ENABLE | Y |
| 2. Send alerts to this location | N |
- h) Screen 41.0:
- | | |
|----------------------------|---|
| 1. Single-session location | N |
| 2. Stay operational | Y |
- i) Screen 42.0:
- | | |
|-----------------------|------------|
| 1. Select | 1 (Create) |
| 2. Session Group Name | RSPOOL |
- j) Screen 43.0:
- | | |
|------------------------------------|-----------|
| 1. Session group type | 2 (Batch) |
| 2. Maximum session limit | 32 |
| 3. Nbr of locally cntr sessions | 16 |
| 4. Nbr of pre-established sessions | 1 |
- k) Screen 44.0:
- | | |
|------------------------------------|-----|
| 1. Receive pacing value | 03 |
| 2. Maximum receive RU size | 512 |
| 3. Acquire remotely cntrd sessions | Y |
- l) Screen 42.0:
Press CMD-7 (End)
- m) Screen 29.0:
Press CMD-7 (End)
- n) Screen 1.0:
Press CMD-7 (Exit ICF)
- 4) Set Communications Security for each AS/400:
- a) Enter communications security:
- SECEDIT COMM
- b) Press Cmd-5 (Add)
- c) Add Screen:
- | | |
|-------------------------------------|--------|
| Remote Location Name | AS400A |
| Location Password*NULL | |
| Require User password to start each | |

APPENDIX C: EXAMPLE CONFIGURATIONS

Procedure
Comment

N
Remote SpoolPrint

AS/400 TCP/IP Example

Remote SpoolPrint, an APPC based product, can communicate across a TCP/IP network. To do this the AS/400 must be set up to use AnyNet, a no-charge feature that comes with OS/400. An example for setting up your AS/400 to run APPC over TCP/IP is located in the IBM manual “Communications Configuration”, SC41-5401. Look at Appendix A, APPC over TCP Example. You can access the IBM Manual from one of the following sources:

- + IBM Softcopy Library CD, Host Communications Bookshelf
- + IBM’s website, as400.ibm.com, Library, Online Library, Category: Host Communications