APPENDIX E: AS/400 SECURITY CONSIDERATIONS

APPC communications to an AS/400 allows the administrator many options concerning security. Remote SpoolPrint incorporates some of these security options. In order to use them, additional communications setup may be necessary on all systems. Please note that this section only applies if you are sending to an AS/400. If sending to a S/36 or S/38, this section does not apply.

Remote SpoolPrint supports SNA Application Program Security, which gives the administrator the ability to send User Profile information when the communications link between programs is established. The administrator has the following choices:

> User profile and password passed
> User profile and the AVI (Already Verified Indicator) flag passed
> No user profile or password passed

To specify security parameters to Remote SpoolPrint, use the MNGRMTWTR (S/38, AS/400) command or MNGRMWTR (S/36) proc. As shipped from BDS, Remote SpoolPrint will send the User profile and password. For most operations, sending User profile and password is recommended. Before deciding which security method to use, the administrator should consider the following:

> Going to a new release of OS/400 will erase any changes made to Subsystem QCMN. Thus BDS software may appear not to work correctly after an IBM release update. If the user is unaware or forgets this, the printer network may be done after an update until BDS or IBM can be reached. For this reason, we do not recommend sending with no security user information.

> Auditors may not allow a user profile and password to be accessed via unsecured screens on a remote system (S/36 RSCTRL proc, AS/400 and S/38 BRSPLSETUP command, etc.) The additional setup needed for sending the AVI flag may be warranted.

> The administrator may not wish to increase the security level on the S/36 or AS/400 so that a user profile and the AVI flag can be sent.

> When Remote SpoolPrint sends a user profile and the AVI flag, user profile QSYSOPR is sent.

> Sending no user profile or password is easy to implement. The only additional setup required is to enter the following command on the target AS/400(s):

> **CHGCMNE SBSD(QCMN) DEV(*ALL) DFTUSER(QUSER)**

> Sending User Profile and password is the easiest method to implement (no setup changes are necessary), if all systems are at the required system security level.

Passing User Profile and Password

To send a user profile and password, the following conditions must be met:

Target AS/400

1) System Security level must be 20 or greater (DSPSYSVAL QSECURITY).

2) The passed User profile must exist on the target AS/400, and the correct password must be passed.

S/36

1) Password security or greater must be active.

2) A Remote Location entry (SECEDIT COMM proc) with Require user password=N must be configured. See Appendix C, Section "AS/400 to AS/400, S/36, and S/38 Example" for an example.

S/38

No changes required.

Source AS/400

1) System Security level must be 20 or greater (DSPSYSVAL QSECURITY).

Passing User Profile and AVI Flag

To send a user profile and the AVI flag, the following conditions must be met:

Target AS/400

1) If APPN(*NO) is specified on the APPC control unit, SECURELOC(*YES) must be specified on APPC device description(s) that communicate to the source system(s).

2) If APPN(*YES) is specified on the APPC control unit, a configuration list type *APPCRMT must exist, and have an entry for the remote location, with SECURE LOC = *YES specified. (WRKCFGL command).

S/36

1) Must have at least Password security active.

2) A Remote Location entry (SECEDIT COMM proc) with Require user password=N must be configured. See Appendix C, Section "AS/400 to AS/400, S/36, and S/38 Example" for an example.

S/38

No changes required.

Source AS/400

1) Security level 20 or greater must be active.

Passing No User Profile or Password

To send no user profile or password, the following conditions must be met:
Target AS/400

1) The Subsystem QCMN communications entry DEVICE(*ALL) MODE(*ANY) must have a valid default user profile (i.e. QUSER).

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S/36

No changes required.

S/38

No changes required.

Source AS/400

No changes required.