

SPOOLORGANIZER/400™ UPDATE INSTRUCTIONS

New Release: Release 05, Modification 07, PTF 2601

System Requirements:

AS/400: OS/400 Version 7 Release 2 Modification 0 or later.
Security level 40 or less

SpoolOrganizer/400™: Release 4.0 PTF 0000 or later.

Enhancements

Release 5.7 PTF 2201

Microsoft Excel (xlsx) format supported. Spool Organizer components can process spool entries into the Microsoft Excel (xlsx) format. Email attachments, DIRSPLE and DIROUTQ commands and Sple display/print functions are included in the support.

Release 5.7 PTF 1805

Duplicate Job/Spool Entries supported. Spool Organizer components can process spool entries in the system that have non-unique job or spool numbers.

Release 5.7 PTF 1803

Disk Encryption Option added. Spool Organizer optionally can encrypt spool data segments when writing them to your hard disk or backup media. This will prevent spool entry data from being stored in clear format. The industry-standard AES encryption algorithm is used.

Release 5.7 PTF 0000

ASP Support added. Spool Organizer product libraries can be installed in ASPs other than the System ASP (ASP = 1). Basic ASPs (1 – 32) and Independent ASPs (33 – 256) are supported.

Multiple Instances per LPAR supported. Spool Organizer can have multiple instances within the same LPAR. Each instance operates independently of the others. Multiple instances can be running at the same time.

Release 5.6 PTF 1203

Online Database Mass Change functions added. Mass changes can be made to the Online Database. For example the administrator can change the Type and Period to ND – 30 to a large number of entries. Two methods can be used:

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- **CHGSOENT command.** Allows the administrator to specify a search spec and the fields to change.
- **BSOMCOLE API.** Allows a HLL developer to write a simple program to change entries in the Online Database.

MGROPTE command. The MGROPTE (Migrate Optical Entries) command now has the RMVOPTE (remove optical entries) parameter, which provides the option to remove migrated entries from the Optical Catalog.

DIRSPLE and DIROUTQ commands. The DIRSPLE and DIROUTQ commands now have the CMBOVPRT (combine overprint lines) option, which allow the option to place all print records with the same line number into the same print record.

Release 5.6 PTF 0000

Spool PDF Overlay/400™ interface added. Generated PDF files can be created by the Spool PDF Overlay/400™ product, which supports the following:

- Overlays
- Images
- Multiple, Embedded Fonts

All Spool Organizer functions that create PDF files will support the Spool PDF Overlay/400 interface. Contact BDS for a 30-day free trial of the Spool PDF Overlay/400 product.

Release 5.5 PTF 0601

Optical Migration Aid added. Spool entries archived to an Optical Library can be migrated to tape (or ARCFILE) or to the Online Database. Corresponding Optical Catalog entries can be migrated. Index entries pointing to optical entries will be migrated.

Release 5.5 PTF 0000

Encryption added. E-mail attachments and IFS files can be encrypted. The industry standard Rijndael algorithm with a 128 bit key is supported. The encrypted file is Windows exe file that users execute. Users must enter a password to access the attachment. All Spool Organizer functions that support E-mail support encryption.

Tape support enhanced. A tailoring option was added, allowing the installation to skip tape mount messages when spool entries are printed from tape.

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Problems Corrected

<u>REL</u>	<u>PTF</u>	<u>DESCRIPTION</u>
5.7	2601	Archive media created via 5.7 2404 or 2501, access causes SPO1064 (not an ARCFILE).
5.7	2501	BDSUSRPRF task not deleting created user profile after Bundle emailed.
5.7	2501	Monitor start, workaround possible QSPROUTQ issue.
5.7	2404	(Enhancement) Tape/ARCFILE, max sple or data recs increased from 9 to 18 digits.
5.7	2403	ARCARCFDTA cmd, ARCFILE with > 99,999,999 records gives SPO1025 (ARCFILE not complete).
5.7	2403	V7R3 or earlier running 5.7 2401 or 2402, receive MCH0802 in BSO177 @stmt 26.
5.7	2402	MGRCCATE cmd, CPF4131 (level check - file BSOARC) received in pgm BSO349.
5.7	2401	DIRSPLE or DIROUTQ cmd in Monitor Exit pgm, IFS file deleted by the Monitor.
5.7	2302	Monitors, end abnormally if detect processing same spool entry in loop.
5.7	2301	Define Bundle Entries, Email Spec name not *BDL, Email Spec type *XLS, get error XLS Specification not found.
5.7	2301	Monitor, high volume of SBMJOB ops, CPF3213 (max mbrs) and CPF7306 (mbr not added) received.
5.7	2201	(Enhancement) F4=Select, added F3=Exit
5.7	2101	Libraries on IASP, BSOUPD cmd gets CPF3883 @ 737.
5.7	2101	Libraries on IASP, Monitors processing dist list => sple not found, sple in BTEMPQ.
5.7	2003	Archive/Purge operations, specifications ND>99999, NM>300 or NY>25 calculates to expired date 12/31/2020.
5.7	2002	Resend sent email, Spool PDF Overlay used, errors retrieving data possible.
5.7	2001	OPTOUTQ cmd to ARCFILE, ARCOUTQ cmd, encryption error when DSPACE (display, print, restore) or print from DSPOLE.
5.7	2001	(Enhancement) CHKSELSPEC, DIRSPLE, EMLSPLE cmds, added JOBSYSNAME and CRTDATE parameters.
5.7	1901	1.3 2002 Spool PDF Overlay/400 interface, identify sple via internal job and spool file id.
5.7	1901	Monitors, Bundle Manager, and other tasks get decryption and decomp errors.
5.7	1805	Display lists, > ~9820 Subfile lines ==> CPF5043, I-O error.
5.7	1805	VEROLE cmd, fix OLDB Hdr/Data mismatch damage.
5.7	1804	Email, Attachment File Name built incorrectly.
5.7	1803	(Enhancement) EMLSPLE cmd, attachment file name, allow up to 128 chars.
5.7	1803	(Enhancement) Increase Online Database internal sequence num to 15 digits from 9.
5.7	1802	Update, subsystem BDS RTGE 60 missing, CPF1697 in BSOUPDT at stmt 621.00.
5.7	1801	Email PDF, prev. email attempt abends, larger PDF work file causes corrupt PDF attachment file.
5.7	1801	Work file create, size allocations changed to (10000 10000 10000).
5.7	1801	Install & Update, Check for user QSECOFR before setting Storage Area to *NONE.
5.7	1801	Report IFS Close errors.
5.6	1701	Email, email addresses passed to IBM API no longer upper-case translated.
5.6	1505	Tasks receive CPD0193 Not authorized to pgm QPMLPMGT.
5.6	1504	Dtaq's BSOBDLMGR, BSOIDXMGR, BSOLOGREQ, make max size 2 giga-byte.

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- 5.6 1504 Temp work sple file name, use 7-digit number.
- 5.6 1504 Monitor to Bundle Manager communication, compress certain data.
- 5.6 1503 (Enhancement) Bundle Manager, partial print, performance greatly enhanced.
- 5.6 1503 (Enhancement) Attribute Change Specs, added EXPDATE and DAYS parameters.
- 5.6 1503 PDF, > 200k pages cause MCH0603 in BSO285 @ stmt 390.
- 5.6 1503 (Enhancement) PDF, support file sizes up to 10 giga-bytes.
- 5.6 1502 Internal modifications.
- 5.6 1501 BDS User Profile Coordinator, MCH0603 in BDS01 at statement 166.
- 5.6 1401 V7R1 & V6R1 IBM cumulative PTF causes MCH0601 in QC2POSIX, BSO262.
- 5.6 1401 Bundles, Partial Prt type R (range), eml PDF causes MCH1202 in BSO139 @ 3618.
- 5.6 1302 EMLSPLE cmd, distribution list address invalid, loop sending msg SPO1175.
- 5.6 1302 Monitors, do not send SPO1167 (Invalid Job date/time). Use Sple open date/time.
- 5.6 1302 DIRSPLE & DIROUTQ cmds, not able to enter type *TSV.
- 5.6 1302 List displays, >9999 entries causes I-O error.
- 5.6 1301 (Enhancement) Monitors, no limit to the number of Selection Specs and Bundle Specs that can be loaded.
- 5.6 1301 (Enhancement) Mirroring, replicated system's password can be specified on the production machine.
- 5.6 1204 (Enhancement) DIRSPLE & DIROUTQ cmds, added *DFT to CMBOVPRT parm.
- 5.6 1203 MGROPT command, I-O error (duplicate key) in pgm BSO345 for file BSOWNT.
- 5.6 1202 V7R1, Optical Functions, MCH1202 in BSO192 at 245.
- 5.6 1202 Bundle Manager, Dup Key in file BSOBSTX causes IO error in BSO125 @ 3261.
- 5.6 1201 Monitors or DSPOLE, email sple, TSV, MCH3601 received in BSO286 @ 161.
- 5.6 1104 Create CSV IFS file, create headings gives MCH1202 in BSO286 @ 169.
- 5.6 1103 DSPOLE exit pgm, spool file attributes parm spaces.
- 5.6 1103 Sample source BSOIX1, SPLFA0200 parm size increased to 15360 chars.
- 5.6 1103 Create IFS from optical spool entry, report errors w/more specific message.
- 5.6 1102 Display a sple, delete work prtf objs in QTEMP after use.
- 5.6 1102 (Enhancement) DSPOLE cmd, added opt to write selected sple's to the IFS.
- 5.6 1101 ARCOUQT, OPTOUQT, DIROUTQ, FCHOUQT cmds, sple deleted causes SPO1051 and cmd to terminate.
- 5.6 1101 (Enhancement) PDF, added compress page data option.
- 5.6 1101 Update, MCH3601 in BSOUP12 possible.
- 5.6 1101 Function checks, I-O errors due to record lock timeouts.
- 5.6 1003 DIRSPLE, DIROUTQ cmds, Invalid PDF Spec, MCH3401 @ 867 or 970.
- 5.6 1002 Text, CSV, TSV, HTML, Combine overprinted lines.
- 5.6 1001 Install/Update, V5R4 machines, CPF3773 (xxx objects not restored).
- 5.6 0000 PDF files, inch to cm multiplier incorrect.

Installation Instructions

Before you begin:

Some of the points below will refer to your old release level. To get this information, run the command **BRODERICK/BSOSETUP**.

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1. The update will overlay any changes made to **BDS** objects by the user (i.e. BDS subsystem description). The user must reapply any changes made to **BDS** supplied objects after applying the update.
2. The update will rename/delete/restore user data files. If for any reason the update process does not complete normally, or receives a function check, Spool Organizer will be unusable and/or user data will be lost. Therefore, we recommend you back up the libraries **BRODERICK**, **BDSDATA**, **BDSBASE** (if it exists) and the IFS directory **/BRODERICK** before starting the update.
3. The supplied media contains the entire Spool Organizer package. If you are installing a new instance of Spool Organizer, follow the instructions in Chapter 2, "Installation". Otherwise, use the instructions below to update your existing Spool Organizer instance to the new release.
4. If your old release is prior to 5.7 1803, the update will copy/reformat many files, some may be large. This may take a long time and will require temporary disk space approaching twice the size of Library **BDSDATA**. A quick time estimate for the copy/reformat processing is 2 times the amount of time that a RSTLIB would take for library **BDSDATA**, or 4 times the amount of time that a SAVLIB would take for library **BDSDATA**.
5. If your old release of Spool Organizer is prior to 5.7 0000, this update will create a new library **BDSBASE** and will move subsystem, class, job description, job queue, and some shared-product objects from library **BRODERICK** to **BDSBASE**. You should update your HA/DR and backup procedures to process library **BDSBASE** similar to how you process library **BRODERICK**. Release 5.7 0000 update also removes the autostart job **BSOLOGREQ** from subsystem **BDS**.
6. If you have multiple instances of Spool Organizer running on this LPAR, or you already have one of our other products running on this LPAR you may also need to update them before giving users access to them. Refer to Appendix L, Release Compatibility in the Spool Organizer Users Guide for more information. Failure to do so could cause other BDS software to stop working after this instance is updated.
7. These update procedures update a single instance of Spool Organizer. If you have multiple instances of Spool Organizer running in this LPAR, you must run this procedure for each instance.
8. If your old release of Spool Organizer is prior to 5.7 1803, this update will set your Disk Encryption password, causing spool entries to be encrypted when written to disk. If you do not want disk encryption turned on, after installation run the command **BSOSETUP** and set the Disk Encr Key/IV to ***NONE**. For more information, refer to Appendix G Additional Functions, section Spool Data Encryption to Hard Disk, Backup Devices.

Update Procedure:

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1. **Important:** Sign on as the security officer (QSECOFR).
2. Stop all Monitors and Subsystem BDS. Stop all other instances of Spool Organizer and all other BDS products running on this LPAR.
3. Determine your current release of Spool Organizer. Enter the following command:

BRODERICK/BSOSETUP

Write down somewhere the Release, Modification, and PTF displayed.

For example, 05 06 1102 is 5.6 1102. If your release is prior to 4.0 0000 you cannot use these instructions. See “Prerequisites” on Page 1 for more information.

4. Install media. Load the install programs from the BDS supplied media. Enter one of the following:

If you are using Tape:

```
RSTOBJ OBJ(BSOUP*) SAVLIB(SPOR40) DEV(XXXXX)VOL(*MOUNTED) RSTLIB(QTEMP)
```

If you are using CD-ROM:

```
RSTOBJ OBJ(BSOUP*) SAVLIB(SPOR40) DEV(OPT01) VOL(BDS) RSTLIB(QTEMP)  
OPTFILE(SPOR40)
```

If you are using Save files:

You should have a save file containing your media. Verify the contents and note the library saved:

```
DSPSAVF FILE(mylib/myfile)
```

The save file should contain objects for library **SPOR40**.

Restore the update objects from the save file containing library **SPOR40** into library QTEMP:

```
RSTOBJ OBJ(BSOUP*) SAVLIB(SPOR40) DEV(*SAVF) SAVF(mylib/myfile) RSTLIB(QTEMP)
```

5. Execute the update procedure. Enter one of the following:

Note: If you are planning to install library **BDSBASE** into an ASP other than the system ASP (ASP 1), refer to Appendix K, “ASP Considerations” to determine the values for the BASASP parameter on the following BSOUPD command. Refer to the command help text for more information regarding the BASASP parameter.

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Note: If you have installed Spool Organizer's program or data libraries into an IASP, verify that the IASP device's status is **AVAILABLE**. Use the command `WRKCFGSTS CFGTYPE(*DEV) CFGD(your-IASP-dev)`. When you run the `BSOUPD` command shown below, specify your IASP group name in the `ASPGRP` parameter.

If you are using Tape or CD-ROM (Press F4 to prompt):

```
QTEMP/BSOUPD DEV(XXXXX)
```

If you are using a Save file (Press F4 to prompt):

```
QTEMP/BSOUPD DEV(*SAVF) PGMSAVF(mylib/myfile)
```

Enter the save file containing library **SPOR40** for mylib/myfile.

6. Spool Organizer is now updated to the new release. You will receive a message that your update has completed.

7. Move product libraries to other ASPs (optional). After all instances of all Broderick Data System products installed in this LPAR have updated to ASP-compatible releases, you can move the BDS product libraries to other ASPs if desired. Refer to Appendix K, "ASP Considerations" for more information.

8. Access the BDS Software Server (optional).

Note: Your AS/400 must be connected to the Internet to perform this procedure.

a) If you have not done so previously, access the tailoring options screen:

BRODERICK/BSOSETUP

b) Note the fields "BDS Access Userid" and "Password". You will need a user ID and password to access some of the server options. If needed, contact BDS administration to get this information. If you add your user id and password, press **ENTER** to enter them and re-enter the setup command.

c) Press F14, E-Comm. The Software Server display will appear. Take note of the options available to you. When you are finished, press F3 to exit.

Submit Update to Batch

Broderick Data Systems recommends the update procedure be performed interactively at a workstation. However, the update can be submitted to batch if necessary. To do this, a simple CL program must be written. This CL program must contain the commands that would be entered interactively. See above for your exact commands and format. An example procedure follows:

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1) Restore the command BSOUPT from the media (CD, save file) into library QTEMP. It will be needed to compile your CL program.

2) Create a source code for a CL program. The program must contain the restore command (RSTOBJ) and the update command (BSOUPT). You may add other commands such as backup or stop commands. For example:

```
PGM
RSTOBJ OBJ(BSOUP*) SAVLIB(SPOR40) DEV(*SAVF) SAVF(MYLIB/SPOR40) RSTLIB(QTEMP)
QTEMP/BSOUPT DEV(*SAVF) PGMSAVF(MYLIB/SPOR40) DTASAVF(MYLIB/SPOR40D)
ENDPGM
```

3) Interactively compile the program (CRTPGM) to your library.

4) Delete command BSOUPT from QTEMP.

5) Perform all activities specified in the above update instructions that need to be done before running the program, and are not in the program. (Sign on as QSECOFR, backup, stop all, etc.)

6) Submit a job to batch that calls the program you created. Wait for it to end. Look over the job log created by the update procedure. There should be a message “Spool Organizer Release XXX now installed” at the end of the log.

7) Perform all activities specified in the above update instructions that need to be done after running the program, and are not in the program. (Restart Monitors, etc.)