APPENDIX E: ASP CONSIDERATIONS

Remote Backup Organizer for IBM i supports Basic and Independent Auxiliary Storage Pools (ASPs, or Disk Pools). **Remote Backup Organizer for IBM i** supports multiple instances per LPAR. The administrator has several choices when deciding which ASP to install **Remote Backup Organizer for IBM i** product libraries. This appendix will describe the issues involved in moving **Remote Backup Organizer for IBM i** libraries to different ASPs, and installing multiple **Remote Backup Organizer for IBM i** instances in an LPAR.

The following containers make up the **Remote Backup Organizer for IBM i** product:

- Programs Library (**BDSRMBK**) – Programming objects and temporary data.
- IFS subdirectory **/BDSRMBK/EMAL40** – Programming objects and temporary data.

The administrator should be familiar with ASPs before moving **Remote Backup Organizer for IBM i** libraries to different ASP locations or implementing multiple **Remote Backup Organizer for IBM i** instances. For more information on OS/400 ASP capabilities, visit the IBM Knowledge Center:

https://www.ibm.com/support/knowledgecenter

Use IBM's search function; search for "disk pools". There are also excellent IBM Redbooks available. Here is a list of some:

Independent ASPs A Guide to Moving Applications to IASPs   SG24-6802
IBM i 6.1 IASPs: A Guide to Quick Implementation of Independent ASPs   SG24-7811

Setup/System Considerations

When planning your ASP selection for your **Remote Backup Organizer for IBM i** installation, consider the following:

- Moving **Remote Backup Organizer for IBM i** objects to different ASPs is optional. The administrator should consider the advantages and disadvantages before moving. BDS recommends you don't move **Remote Backup Organizer for IBM i** product libraries unless you see a clear advantage to moving them.

- The IFS subdirectory **/BDSRMBK** must remain in the *SYSBAS ASP's directory system. It cannot be moved to the IFS directory system in an Independent ASP. Multiple instances will share the one **/BDSRMBK** IFS directory.

- Library BDSRMBK can be in the *SYSBAS ASP or an Independent ASP.

- Check application ASP needs. Please note that the ASP Group setting allows only one non-*SYSBAS IASP to be accessed at a time by a user job.

- ASP IPL startup delay. Some ASP devices may not automatically vary on during IPL. Even if the devices do automatically vary on during IPL, the time it takes for the ASP devices to become AVAILABLE can be significant, and libraries on the ASPs are not accessible until the ASP is available. If you place **Remote Backup Organizer for IBM i** product libraries on ASPs other than ASP 1, you should modify your startup procedures to account for this delay. For example your IPL startup stream should submit a job to start **Remote Backup Organizer for IBM i** processes instead of starting them directly. It should test for the existence of library **BDSRMBK** (the tested lib should be in an ASP), and delay/loop until the lib is found. Then issue **Remote Backup Organizer for IBM i** commands.

- Entire System Save. The IBM Save All function (option 21) does not save the contents of IASPs. An instance's library **BDSRMBK** that exists on an IASP must be saved after the Save All function completes.

Operational Considerations

When running **Remote Backup Organizer for IBM i** commands, consider the following:

- Set the ASP Group before running **Remote Backup Organizer for IBM i** commands. There are several different ways to do this, including:

  o   The IBM SETASPGRP command.
  o   User Profile (via Job Description).
  o   Submit Job Command
  o   Job Description

To determine the ASP Group of a **Remote Backup Organizer for IBM i** asynchronous job (or any job), run the WRKACTJOB command and display the job (option 5). Take option 2 (Display job definition attributes).

Moving Product Libraries to other ASPs

The procedure to move the **Remote Backup Organizer for IBM i** library is as follows:

- Stop all operations in that instance for all BDS products.
- Back up the library.
- Remove the library from all active jobs' library lists.
- Perform the following operations on the library: SAVLIB, DLTLIB, RSTLIB.
- Restart BDS product operations.

Running Multiple Instances in an LPAR

APPENDIX E: ASP CONSIDERATIONS

Multiple instances of **Remote Backup Organizer for IBM i** can run within an LPAR. Each instance runs independently, though some objects are shared by all instances, including:

- IFS subdirectory **/BDSRMBK**

All instances can be active and running at the same time. Each instance must contain a copy of library **BDSRMBK** in its own unique IASP.

Note: Library BDSBASE is not created or used by **Remote Backup Organizer for IBM i**. It may exist on your system because another BDS Product created it.

When running multiple **Remote Backup Organizer for IBM i** instances, consider the following:

- Library **BDSRMBK** cannot reside in ***SYSBASE**. See "Moving Product Libraries to other ASPs" in this appendix for more information on moving library BDSRMBK to an IASP.

- The IFS subdirectory **/BDSRMBK** must remain in the *SYSBAS IASP's directory space.

- You must install and update each instance separately. For example, if you have **Remote Backup Organizer for IBM i** instances installed in IASPs IASP1 and IASP2, you must run the update procedure twice.

- To update or install an instance of **Remote Backup Organizer for IBM i**, all instances in the LPAR must be stopped.

- For each instance, library **BDSRMBK** must be backed up and restored as a separate entity. For example if you have 2 instances, you must back up both instances of library **BDSRMBK** in order to be able to recover data if needed.

  Note: You can restore an instance's **BDSRMBK** libray into another IASP to create another instance.

- If you are Mirroring our product, each instance must be mirrored as a separate entity. Please note that we do not think it is necessary to mirror library **BDSRMBK**.

To work with an instance of **Remote Backup Organizer for IBM i**, you simply set your job's ASP Group. For example:

SETASPGRP IASP1
SAVOBJNET …
SETASPGRP IASP2
SAVOBJNET …