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Conversion Supplement

1 Conversion for Backup & Recovery Manager Suite

Follow the procedures in this document if you are using a prior release of either ASAP or Backup & Recovery Manager Suite, and are upgrading to Backup & Recovery Manager Suite Release 06.01.

- If you have BRM Suite 4.101 or 4.303 (but you do not have ASAP), follow the procedure in section 2, 'Conversion Supplement: if you have BRM Suite 4.101 or 04.03' (page 2).
- If ASAP (release 5.301 or 5.401) is your only BRM Suite product, follow the procedure in section 3, 'Conversion Supplement: if ASAP is your only BRM Suite product' (page 9).
- If you have ASAP (version 5.301 or 5.401) plus other BRM Suite products (ABARS Manager and/or All/Star), follow the procedure in section 4, 'Conversion Supplement: if you have ASAP and a BRM Suite product' (page 15).

1.1 Compression of the BRM Suite Inventory Data Set

Starting with release 06.01, Backup & Recovery Manager Suite contains compression algorithms to help control the growth of the BRM Suite Inventory Data Set (IDS). Whenever a record is created or updated using release 06.01 or later, the record will be compressed. Over time, backups recorded in the IDS prior to 06.01 that were not subject to compression will expire, and any new backups will be compressed, reducing the space used.

Convert from a Previous Release:

When upgrading to BRM Suite release 06.01 from 4.101 or 04.03, you will run the conversion routine included as a task in this document to add a control record to your BRM Suite IDS. This control record will signal that the IDS will now support compressed records. If the record is not there, BRM Suite 06.01 will issue a message and terminate processing for the BRM function that is using the IDS. The IDS is used by both ABARS Manager and All/Star.

After the conversion routine has been run against a 4.101 or 04.03 IDS, all new records created by 06.01 will be compressed, and release 4.101 and 04.03 start-up programs will fail when they encounter the compressed records written to the IDS by BRM Suite 06.01.

If, after installing 06.01, you wish to compress all existing records in your IDS, you may force-compress all records. To do this:

1. Unload the data using the UNLOADIDS command. Use the ISPF panels to generate and submit the JCL.
2. Load the data using the LOADIDS command. Use the ISPF panels to generate and submit the JCL. When the data is loaded back into the IDS, it will be compressed.

Note: Unloading the data does not cause compression to occur. Compression occurs by using the 06.01 version of LOADIDS. To reload data without compression, for use with an older release of BRM Suite, you must use the older release's version of the LOADIDS command.

Revert to a Previous Release:

Once BRM Suite 06.01 has written a record into the IDS, it can no longer be used by releases 4.101 or 04.03. If you need to create an uncompressed version of the IDS:

1. Unload the data using the release 06.01 UNLOADIDS command to build a flat file of uncompressed records.
2. Load the data using the LOADIDS command from the 4.101 or 04.03 LOAD library into a new IDS. The IDS will be in the uncompressed state and usable by releases 4.101 and 04.03.
2 Configuration Tasks – if you have BRM Suite 4.101 or 04.03

After the common installation has successfully created and loaded the Backup & Recovery Manager Suite product libraries, the products must be configured to suit your installation.

The authorization to use a selectable product is determined by the LICENSES code. The common install consists of a common set of libraries.

Note: If you used SMP/E to install the product, in some cases you may notice in the non-LOAD product libraries (PARMLIB, JCL, etc.) what appear to be duplicate members. These are, in fact, only aliases.

The tasks listed below are described in detail in the referenced topics. For some tasks you will need to use the BRMINI member of the product PARMLIB. The BRMINI PARMLIB member is documented in Appendix B, BRM Suite: BRMINI Configuration Values in the Backup & Recovery Manager Suite Installation and Maintenance Guide.

Table 2-1: Configuration Tasks to Upgrade ABARS Manager and All/Star

<table>
<thead>
<tr>
<th>TASK</th>
<th>TASK DESCRIPTION</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>APF Authorize the Product LOAD Library. The LOAD library contains modules for ABARS Manager, All/Star, and ASAP.</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>Run INIMERGE. INIMERGE updates existing BRMINI with new tokens. <strong>Note:</strong> INIMERGE should only be run once, rather than once for each product.</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>Code BRMINI PARMLIB member variables. BRMINI keywords and descriptions are documented in Appendix B, BRM Suite: BRMINI Configuration Values in the Backup &amp; Recovery Manager Suite Installation and Maintenance Guide</td>
<td>4</td>
</tr>
<tr>
<td>4</td>
<td>Run JCLBUILD. This step substitutes BRMINI variables into the PROC statements in the JCL library members. <strong>Note:</strong> JCLBUILD should be run only once, rather than once for each product.</td>
<td>6</td>
</tr>
<tr>
<td>5</td>
<td>Convert the BRM Suite Inventory Data Set (DBINIT).</td>
<td>6</td>
</tr>
<tr>
<td>6</td>
<td>Retrofit Original Define Parameters and JCL Library.</td>
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<tr>
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<td>Ensure Adequate TSO Address Space Region Size.</td>
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<td>8</td>
<td>Verify Product Install/Configuration.</td>
<td>7</td>
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<tr>
<td>9</td>
<td>Specification and Display of EBCDIC Characters.</td>
<td>8</td>
</tr>
<tr>
<td>10</td>
<td>Complete the Post-Installation Tasks. Depending on which products you have licensed, go to the appropriate chapter in the Backup &amp; Recovery Manager Suite Installation and Maintenance Guide and complete the post-installation tasks: Chapter 5, ABARS Manager Post-Installation Tasks Chapter 6, All/Star Post-Installation Tasks Chapter 7, ASAP Post-Installation Tasks</td>
<td>8</td>
</tr>
</tbody>
</table>
2.1 Task 1: APF Authorize the Product LOAD Library

One LOAD library is shared by ABARS Manager, All/Star, and ASAP. The LOAD library must be APF authorized before continuing the configuration tasks. Consult your Systems Programmer to have this library added into the APF list and ensure appropriate access controls have been established.

Note: If your system PARMLIB member IEASYS00 has parameter LNKAUTH=LNKLST specified, the BRM product does not honor that. The product LOAD library must be APF authorized in either IEAPFxx or PROGxx members.

2.2 Task 2: Run INIMERGE

Note: Do not alter the contents of the BRMINI# member sent with the release.

Note: INIMERGE should be run only once, rather than once for each product.

BRMINI keyword values are fetched one at a time at the product start-up. INIMERGE merges new and updated BRMINI# PARMLIB data with your existing BRMINI PARMLIB member.

The JCL to run INIMERGE can be found in the data set 'prefix.value.JCL(INIMERGE)', created by submitting INSTJCL during the install process.

Edit the JCL in JCL (INIMERGE) and submit the job as follows:

1. Provide a valid job card statement.
2. Change the STEPLIB data set name to the 'prefix.value.LOAD' library.
3. Change the INI DD statement to point to the 'prefix.value.PARMLIB'. Use the existing PARMLIB data set name and specify BRMINI as the member name.
4. Change the MSCINI DD statement to point to the 'prefix.value.PARMLIB' data set, and ensure that the member name remains as BRMINI#.
5. Change the UPDATE DD statement to point to the 'prefix.value.PARMLIB' data set, and ensure that the member name remains as BRMINI.
6. Submit the job, and ensure it executes and completes with a completion code 0 before proceeding to the next task.

If the job terminates with a non-zero completion code, first check to see if any error messages indicate a situation that is easily correctable. INIMERGE can be rerun. If the situation does not appear to be easily correctable, please contact Mainstar Technical Support at 1-425-455-3589 or send email to techsupport@mainstar.com, for assistance before proceeding to the next task.
2.3 Task 3: Code BRMINI PARMLIB Member Variables

The values for the keywords in the BRMINI member of the product PARMLIB control many functions and processing, such as ISPF field defaults, batch command processing defaults, data set allocations, etc.

1. Use ISPF Edit to update the configuration values in the BRMINI member of the product PARMLIB.

2. Some specific keywords are given special mention in topics below, but be sure to review all of the keywords in the BRMINI member and set appropriate values for your installation. If you need more detailed information during this update process about the BRMINI sections and tokens, please refer to Appendix B, BRM Suite: BRMINI Configuration Values in the Backup & Recovery Manager Suite Installation and Maintenance Guide.

3. Make sure the default values coded for some keywords are appropriate for your installation.

4. After you’ve made all your edits, save your newly updated BRMINI.

The values you specify can be changed directly by updating the BRMINI member of the PARMLIB. After you have completed the customization process for the BRMINI member, the PARMLIB data set should be treated as a ‘read-only’ data set.

2.3.1 Set LICENSES Value in :PRODUCT_SECURITY Section

LICENSES =

The value for the 'LICENSES' token needs to be replaced with your site-specific information from the Product Authorization Certification form that was shipped along with the product installation materials. If you did not receive this form, or if the form is not available to you for whatever reason, please contact Mainstar to request your license code.

- In the U.S., call Mainstar at 425-455-3589 and ask for Customer Support, or send an email to customerservice@mainstar.com.
- Outside the U.S., call your local Mainstar support office (a current list of Mainstar offices and Software Distributors can be found at www.mainstar.com).

A sample of the security section of the BRMINI PARMLIB member is shown below. All of the keywords in the BRMINI member are described in Appendix B, BRM Suite: BRMINI Configuration Values in the Backup & Recovery Manager Suite Installation and Maintenance Guide.

```
:PRODUCT_SECURITY
LICENSES = FFFF-FFFF-FFFF-FFFF-FFFF-FFFF-FF
```

If your installation’s contract is based on specific CPU checking, you will be given a LICENSES code for each CPU. Enter the codes in the :PRODUCT_SECURITY section with continuations, as shown below:

```
LICENSES = FFFF-FFFF-FFFF-FFFF-FFFF-FFFF-FF +
          FFFF-FFFF-FFFF-FFFF-FFFF-FFFF-FF
```
2.3.2 Modify Library Names in :INSTALLATION_DATASETS Section

ISPPLIB1 =
LOAD1 =
MSGLIB
PARMLIB =

Update the tokens for ISPPLIB1, LOAD1, MSGLIB, and PARMLIB keywords, and ensure that the correct data set names are specified. The data set names specified here must be the libraries from which the product(s) will be executed. In some cases, these will also be the installation data sets, however, data centers can have conventions that differ. If these token values do not accurately represent the target libraries, unpredictable results can occur.

Note 1: The BRMINI member you are currently updating must reside in the library that is specified via the PARMLIB token.

Note 2: The data set specified for the LOAD1 token must be APF authorized (this requirement is included as a specific task in this configuration procedure).

2.3.3 Set RLS Token Values in :SI040_VALUES Section

If RLS is employed for the DFSMShsm MCDS, BCDS, or both, configure the following RLS token in the :SI040_VALUES section of the BRMINI member.

1. Find the following keyword in the :SI040_VALUES section of the BRMINI member.

   *VSAM-CLUSTER-NAME = RLS

2. Remove the * in front of the token to activate it.

3. Change from:

   VSAM-CLUSTER-NAME = RLS

   to:

   YOUR.HSM.MCDS.NAME = RLS

4. If multiple DFSMShsm MCDS or BCDS need to be specified, insert additional lines. For example:

   HSM.MCDS = RLS
   HSM.MCDS2 = RLS
   HSM.BCDS = RLS
   HSM.BCDS2 = RLS

5. Do not specify the following RLS parameter unless under the direction of Mainstar Technical Support.

   VSAM-CLUSTER-NAME.RLS_TIMEOUT = 25

2.3.4 Set CA-MIM/Mii Token Values in :RESOURCE_SERIALIZATION Section

Installations running CA-MIM/Mii with multiple systems and shared DASD need to set the BRMINI parameter MIM_GDIF in the :RESOURCE_SERIALIZATION section to YES. This will ensure that when CA-MIM/Mii GDIF is inactive, the BRM Suite data sets are protected from data corruption.

:RESOURCE_SERIALIZATION
   MIM_GDIF = YES
2.4 Task 4: Run JCLBUILD

Backup & Recovery Manager Suite batch job JCL library members use instream PROCs. The instream PROCs contain symbolics (&...). The purpose of JCLBUILD is to substitute BRMINI variables into the PROC statements in the JCL library members. Even though distributed product maintenance may not include new JCL members, changes to the BRMINI PARMLIB member would necessitate this step. JCLBUILD can be found in the product JCL library.

1. If you are updating into an existing JCL library, it is recommended that you back it up before running this job.
2. Modify the JCLBUILD job JCL as indicated by the comments at the beginning of the member.
3. Be sure that the BRM values are set as desired before running JCLBUILD. JCLBUILD may be rerun at any time.
4. Submit the JCLBUILD job.

2.5 Task 5: Convert the BRM Suite Inventory Data Set (DBINIT)

DBINIT is a member of the product JCL library.

When upgrading BRM Suite, you must run DBINIT against your current IDS to insert the conversion record into the IDS that BRM Suite 06.01 code checks. If you reload your IDS back to 04.03, you must apply PTFs MSC-PK00148 and MSC-PK00150 to 04.03 to remove the conversion record.

After running DBINIT, your Inventory Data Set will be inaccessible by prior releases of BRM Suite.

Important: If you intend to continue using prior release(s) of BRM, you need to copy your Inventory Data Set and also apply PTFs MSC-PK00148 and MSC-PK00150 to the prior release(s) of BRM Suite that you are using so they cannot damage the IDS. Contact Mainstar Technical Support for help.

2.6 Task 6: Retrofit Original Define Parameters and JCL Library

Several files that were defined under the previous release of BRM Suite are carried forward to the new release without redefining them. These files can be found in the JCL library under the names DEF#DAD, DEF#LOG, DEF#MSGQ, and DEFINVDB. To avoid losing the original file definitions when upgrading, you may wish to retrofit these definitions into the members in the new release.

2.7 Task 7: Ensure Adequate TSO Address Space Region Size

Backup & Recovery Manager Suite requires a 4-megabyte region. A larger region may be desired if running in split screen mode.
2.8 Task 8: Verify Product Install/Configuration

To verify that the Backup & Recovery Manager Suite product is successfully installed and configured:

1. You must complete all post-installation tasks (see Chapter 5, ABARS Manager: Post-Installation Tasks, and Chapter 6, All/Star: Post-Installation Tasks, and Chapter 7, ASAP Post-Installation Tasks) in the Backup & Recovery Manager Suite Installation & Maintenance Guide (GC23-6062-00) before using any of the BRM Suite functions.

2. Turn on TSO Profile options WTPMSG & MSGID so that error messages will be written to the terminal. When a TSO ID is created, NOWTPMSG and NOMSGID are the defaults. To find out if they are on, at the option prompt, key TSO PROFILE LIST. If they are not on, at the option prompt, key TSO PROFILE MSGID WTPMSG.

3. Go to TSO ISPF option 6.

4. Use the following command to invoke the Backup & Recovery Manager Suite product.

   EX ‘hlq.PARMLIB(BRM)’

   Where: hlq is your installation high level qualifier for Backup & Recovery Manager Suite.

You should now see the Backup & Recovery Manager Suite Main Menu (shown below).

--- Menu Diagnostics Preferences Utilities Admin ---
V06.01 Backup & Recovery Manager Suite - Main Menu
Command ==> Enter an option from the list below:

1 Setup and Configuration
2 Backup and Recovery Management
3 ASAP
4 Features

Miscellaneous Functions
5 Search for Dataset
6 Reports
7 Monitor
8 History
X Exit

---

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---
2.9 Task 9: Specification and Display of EBCDIC Characters

System Administrator: Your installation may need to specify different masking characters to achieve the desired result if your code tables are different from the U.S.A. EBCDIC code set.

Data supplied as input to batch programs or input to ISPF panels:

For Mainstar product code shipped in binary, when specifying input where the product takes special action based on specific characters, the user is responsible for entering the EBCDIC character peculiar to their code tables, that results in the binary value for the EBCDIC character specified in the product manuals, according to the U.S.A. EBCDIC code set.

For instance, if an exclamation mark ( ! ) is called for, and your code tables do not translate the ! character to a hexadecimal 5A, you must enter the character that will translate to a 5A.

Do not change Mainstar distributed ISPF panels:

Mainstar programs may reference ISPF panel attribute bytes. A panel change involving an attribute byte will not be consistent with the program code.

Product output:

Depictions of product output shown in the product manuals are based on the U.S.A. EBCDIC code set. Actual output may vary if your EBCDIC code tables are different.

2.10 Task 10: Complete the Post-Installation Tasks

Depending on which products you have licensed, go to the appropriate chapter in the Backup & Recovery Manager Suite Installation and Maintenance Guide and complete the post-installation tasks:

- Chapter 5, ABARS Manager: Post-Installation Tasks
- Chapter 6, All/Star: Post-Installation Tasks
3 Configuration Tasks – if ASAP is your only BRM Suite product

Complete the following steps if you are upgrading from ASAP 5.301 or 5.401, and ASAP is your only BRM Suite product. Use these tasks instead of the tasks in Chapter 4, Configure ABARS Manager, All/Star, and ASAP of the Backup & Recovery Manager Suite Installation and Maintenance Guide (document 005-0202).

Table 3-1: Configuration Tasks to Upgrade ASAP

<table>
<thead>
<tr>
<th>TASK</th>
<th>TASK DESCRIPTION</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>APF Authorize the Product LOAD Library.</td>
<td>10</td>
</tr>
<tr>
<td>2</td>
<td>Run the ASAP Conversion JCL (JCL member ASPINICV).</td>
<td>10</td>
</tr>
</tbody>
</table>
| 3    | Code BRMINI PARMLIB Member Variables.  
BRMINI keywords and descriptions are documented in Appendix B, BRM Suite: BRMINI Configuration Values in the Backup & Recovery Manager Suite Installation and Maintenance Guide. | 10   |
| 4    | Run JCLBUILD.  
This step substitutes BRMINI variables into the PROC statements in the JCL library members. | 12   |
| 5    | Retrofit Original Define Parameters and JCL Library. | 12   |
| 6    | Ensure Adequate TSO Address Space Region Size. | 12   |
| 7    | Verify Product Install/Configuration. | 13   |
| 8    | Specification and Display of EBCDIC Characters. | 14   |
| 9    | Complete the Post-Installation Tasks. | 14   |
3.1 Task 1: APF Authorize the Product LOAD Library

One LOAD library is shared by ABARS Manager, All/Star, and ASAP. The LOAD library must be APF authorized before continuing the configuration tasks. Consult your Systems Programmer to have this library added into the APF list and ensure appropriate access controls have been established.

**Note:** If your system PARMLIB member IEASYS00 has parameter LNKAUTH=LNKLST specified, the BRM product does not honor that. The product LOAD library must be APF authorized in either IEAPFxx or PROGxx members.

3.2 Task 2: Run the ASAP Conversion JCL Member ASPINICV

Run the ASAP conversion JCL (JCL member ASPINICV) instead of running INIMERGE. This job will update the BRMINI member with token values from ASAP’s AMPINI member. You will need to update many BRMINI tokens manually in the next task, either because of changes for release 06.01, or because there are no old ASAP equivalents.

3.3 Task 3: Code BRMINI PARMLIB Member Variables

The values for the keywords in the BRMINI member of the product PARMLIB control many functions and processing, such as ISPF field defaults, batch command processing defaults, data set allocations, etc.

1. Use ISPF Edit to update the configuration values in the BRMINI member of the product PARMLIB.
2. Some specific keywords are given special mention in topics below, but be sure to review all of the keywords in the BRMINI member and set appropriate values for your installation. If you need more detailed information during this update process about the BRMINI sections and tokens, please refer to Appendix B, BRM Suite: BRMINI Configuration Values.
3. Make sure the default values that are coded for some keywords are appropriate for your installation.
4. After you’ve made all your edits, save your newly updated BRMINI.

The values you specify can be changed directly by updating the BRMINI member of the PARMLIB. After you have completed the customization process for the BRMINI member, the PARMLIB data set should be treated as a ‘read-only’ data set.

3.3.1 Set Blank Values to NULLFILE

If any of the BRMINI tokens requiring data set names contains a blank or a value such as "?", change the value to NULLFILE before continuing the configuration process.
3.3.2 Set LICENSES Value in :PRODUCT_SECURITY Section

   LICENSES =

   The value for the 'LICENSES' token needs to be replaced with your site-specific information from the Product Authorization Certification form that was shipped along with the product installation materials. If you did not receive this form, or if the form is not available to you for whatever reason, please contact Mainstar to request your license code.

   • In the U.S., call Mainstar at 425-455-3589 and ask for Customer Support, or send an email to customerservice@mainstar.com.
   • Outside the U.S., call your local Mainstar support office (a current list of Mainstar offices and Software Distributors can be found at www.mainstar.com).

   A sample of the security section of the BRMINI PARMLIB member is shown below. All of the keywords in the BRMINI member are described in Appendix B, BRM Suite: BRMINI Configuration Values.

```
:PRODUCT_SECURITY
  LICENSES = FFFF-FFFF-FFFF-FFFF-FFFF-FFFF-FF
```

If your installation’s contract is based on specific CPU checking, you will be given a LICENSES code for each CPU. Enter the codes in the :PRODUCT_SECURITY section with continuations, as shown below:

```
  LICENSES = FFFF-FFFF-FFFF-FFFF-FFFF-FFFF-FF +
              FFFF-FFFF-FFFF-FFFF-FFFF-FFFF-FF
```

3.3.3 Define Space Management Method in :ASAP Section

   SPACE_MANAGEMENT =

   SPACE_MANAGEMENT – Define the space management method used at your installation (HSM, DMS, etc.). If you do not have HSM, the BRMINI token 'SPACE_MANAGEMENT' can be either DMS, ABR, or NONE.

3.3.4 Modify Library Names in :INSTALLATION_DATASETS Section

   ISPPLIB1 =
   LOAD1 =
   MSGLIB
   PARMLIB =

   Update the tokens for ISPPLIB1, LOAD1, MSGLIB, and PARMLIB keywords, and ensure that the correct data set names are specified. The data set names specified here must be the libraries from which the product(s) will be executed. In some cases, these will also be the installation data sets, however, data centers can have conventions that differ. If these token values do not accurately represent the target libraries, unpredictable results can occur.

   **Note 1:** The BRMINI member you are currently updating must reside in the library that is specified via the PARMLIB token.
   **Note 2:** The data set specified for the LOAD1 token must be APF authorized (this requirement is included as a specific task in this configuration procedure).
3.3.5 Set RLS Token Values in :SI040_VALUES Section

If RLS is employed for the DFSMShsm MCDS, BCDS, or both, configure the following RLS token in the :SI040_VALUES section of the BRMINI member.

1. Remove the * in front of the *VSAM-CLUSTER-NAME = RLS token to activate it.
2. Change the VSAM-CLUSTER-NAME to the names of your actual MCDS, BCDS, or both.
   
   For example:
   
   HSM.MCDS = RLS
   HSM.BCDS = RLS

3. If multiple DFSMShsm MCDS or BCDS need to be specified, insert additional lines.
   
   For example:
   
   HSM.MCDS = RLS
   HSM.MCDS2 = RLS
   HSM.BCDS = RLS
   HSM.BCDS2 = RLS

4. Do not specify the following RLS parameter unless under the direction of Mainstar Technical Support.

   VSAM-CLUSTER-NAME.RLS_TIMEOUT = 25

3.3.6 Set CA-MIM/MII Token Values in :RESOURCE_SERIALIZATION Section

Installations running CA-MIM/MII with multiple systems and shared DASD need to set the BRMINI parameter MIM_GDIF in the :RESOURCE_SERIALIZATION section to YES. This will ensure that when CA-MIM/MII GDIF is inactive, the BRM Suite data sets are protected from data corruption.

```plaintext
:RESOURCE_SERIALIZATION
   MIM_GDIF = YES
```

3.4 Task 4: Run JCLBUILD

Backup & Recovery Manager Suite batch job JCL library members use instream PROCs. The instream PROCs contain symbolics (&...). The purpose of JCLBUILD is to substitute BRMINI variables into the PROC statements in the JCL library members. Even though distributed product maintenance may not include new JCL members, changes to the BRMINI PARMLIB member would necessitate this step. JCLBUILD can be found in the product JCL library.

1. If you are updating into an existing JCL library, it is recommended that you back it up before running this job.
2. Modify the JCLBUILD job JCL as indicated by the comments at the beginning of the member.
3. Be sure that the BRMINI token values are set as desired before running JCLBUILD. (You may change token values later on and rerun JCLBUILD at any time).
4. Submit the JCLBUILD job.

3.5 Task 5: Retrofit Original Define Parameters and JCL Library

When upgrading to release 6.01 from a previous release of ASAP, the ASAP database will be converted rather than redefined. You may wish to retrofit the database definitions from the prior release to the new release library members. These defines can be found in the PARMLIB under ASAPDB*.

3.6 Task 6: Ensure Adequate TSO Address Space Region Size

Backup & Recovery Manager Suite requires a 4-megabyte region. A larger region may be desired if running in split screen mode.
3.7 Task 7: Verify Product Install/Configuration

To verify that the Backup & Recovery Manager Suite product is successfully installed and configured:

1. You must complete all post-installation tasks (see Chapter 7, ASAP: Post-Installation Tasks in the Backup & Recovery Manager Suite Installation & Maintenance Guide, GC23-6062-00) before using any of the Backup & Recovery Manager Suite functions.

2. Turn on TSO Profile options WTPMSG & MSGID so that error messages will be written to the terminal. When a TSO ID is created, NOWTPMSG and NOMSGID are the defaults. To find out if they are on, at the option prompt, key TSO PROFILE LIST. If they are not on, at the option prompt, key TSO PROFILE MSGID WTPMSG.

3. Go to TSO ISPF option 6.

4. Use the following command to invoke the BRM Suite product:

   **EX 'hlq.PARMLIB(BRM)'**

   Where: **hlq** is your installation high level qualifier for BRM Suite.

You should now see the Backup & Recovery Manager Suite Main Menu (shown below).

```
Menu  Diagnostics  Preferences  Utilities  Admin
---------------------------------------------------------------
V06.01  Backup & Recovery Manager Suite - Main Menu
Command =>

Enter an option from the list below:
1  Setup and Configuration
2  Backup and Recovery Management
3  ASAP
4  Features

Miscellaneous Functions
5  Search for Dataset
6  Reports
7  Monitor
8  History
X  Exit

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```
3.8 Task 8: Specification and Display of EBCDIC Characters

**System Administrator:** Your installation may need to specify different masking characters to achieve the desired result if your code tables are different from the U.S.A. EBCDIC code set.

*Data supplied as input to batch programs or input to ISPF panels:*

For Mainstar product code shipped in binary, when specifying input where the product takes special action based on specific characters, the user is responsible for entering the EBCDIC character peculiar to their code tables, that results in the binary value for the EBCDIC character specified in the product manuals, according to the U.S.A. EBCDIC code set.

For instance, if an exclamation mark ( ! ) is called for, and your code tables do not translate the ! character to a hexadecimal 5A, you must enter the character that will translate to a 5A.

*Do not change Mainstar distributed ISPF panels:*

Mainstar programs may reference ISPF panel attribute bytes. A panel change involving an attribute byte will not be consistent with the program code.

*Product output:*

Depictions of product output shown in the product manuals are based on the U.S.A. EBCDIC code set. Actual output may vary if your EBCDIC code tables are different.

3.9 Task 9: Complete the Post-Installation Tasks

Go to Chapter 7, ASAP Post-Installation Tasks, in the Backup & Recovery Manager Suite Installation & Maintenance Guide (GC23-6062-00) and complete the post-installation tasks.
4 Configuration Tasks – if you have ASAP and a BRM Suite product

Complete the following steps if one of the following applies to your situation:

- You are upgrading from ASAP 5.301 or 5.401, and you also have an existing install of any BRM Suite products (ABARS Manager, All/Star, or Incremental ABARS),
  or
- You are upgrading from ASAP 5.301 or 5.401, and you are adding BRM Suite products (ABARS Manager, All/Star, or Incremental ABARS).

Use these tasks instead of the tasks in Chapter 4, Configure ABARS Manager, All/Star, and ASAP of the Backup & Recovery Manager Suite Installation and Maintenance Guide (document 005-0202).

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**Task 1: APF Authorize the Product LOAD Library**

One LOAD library is shared by ABARS Manager, All/Star, and ASAP. The LOAD library must be APF authorized before continuing the configuration tasks. Consult your Systems Programmer to have this library added into the APF list and ensure appropriate access controls have been established.

**Note:** If your system PARMLIB member IEASYS00 has parameter LNKAUTH=LNKLST specified, the BRM product does not honor that. The product LOAD library must be APF authorized in either IEAPFxx or PROGxx members.

**4.2 Task 2: Run INIMERG2**

**Note:** Do not alter the contents of the BRMINI# member sent with the release.

**Note:** INIMERG2 should be run only once, rather than once for each product.

The JCL to run INIMERG2 can be found in the data set `prefix.value.JCL(INIMERG2)`, created by submitting INSTJCL during the install process.

1. Save your current BRMINI member. This copy of BRMINI will be referred to below as BRMINI#1. It will be changed substantially by the following tasks.

2. Edit the JCL in JCL (INIMERG2) and submit the job as follows:
   - Provide a valid job card statement.
   - Change the STEPLIB data set name to the `prefix.value LOAD` library.
   - Change the INI DD statement to point to the `prefix.value.PARMLIB`.
   - If you are installing the product for the first time, use `prefix.value.PARMLIB` as the data set name and specify BRMINI# as the member name.
   - If you already have a product.PARMLIB from a previous install, use the existing PARMLIB data set name and specify BRMINI#1 as the member name.
   - Change the MSCINI DD statement to point to the `prefix.value.PARMLIB` data set, and ensure that the member name remains as BRMINI#.
   - Change the UPDATE DD statement to point to the `prefix.value.PARMLIB` data set, and ensure that the member name remains as BRMINI#2.

3. Submit the job, and ensure it executes and completes with a completion code 0 before proceeding to the next task.

If the job terminates with a non-zero completion code, first check to see if any error messages indicate a situation that is easily correctable. INIMERG2 can be rerun. If the situation does not appear to be easily correctable, please contact Mainstar Technical Support at 1-425-455-3589 or send email to techsupport@mainstar.com, for assistance before proceeding to the next task.
4.3 Task 3: Run ASAP Conversion JCL Member BRMINICV

Run the ASAP conversion JCL (JCL member BRMINICV). This job will update the BRMINI#2 (DDNAME UPDATE) with token values from the AMPINI member in ASAP.

4.4 Task 4: Run JCL Member BRMINIUP

Run BRMINIUP (JCL member BRMINIUP). This job will move the previously used BRMINI token values in BRMINI#1 into the newly converted BRMINI#2 and produce a fully converted BRMINI member ready to use in BRM Suite 06.01.

4.5 Task 5: Code BRMINI PARMLIB Member Variables

The keyword values in the BRMINI member of the product PARMLIB control many functions and processing, such as ISPF field defaults, batch command processing defaults, data set allocations, etc.

1. Use ISPF Edit to update the configuration values in the BRMINI member of the product PARMLIB.

2. Some specific keywords are given special mention in topics below, but be sure to review all of the keywords in the BRMINI member and set appropriate values for your installation. If you need more detailed information during this update process about the BRMINI sections and tokens, please refer to Appendix B, BRMINI Configuration Values of the Backup & Recovery Manager Suite Installation & Maintenance Guide (GC23-6062-00).

3. Make sure the default values that are coded for some keywords are appropriate for your installation.

4. After you've made all your edits, save your newly updated BRMINI.

The values you specify can be changed directly by updating the BRMINI member of the PARMLIB. After you have completed the customization process for the BRMINI member, the PARMLIB data set should be treated as a 'read-only' data set.

4.5.1 Set Blank Values to NULLFILE

If any of the BRMINI tokens requiring data set names contains a blank or a value such as "?", change the value to NULLFILE before continuing the configuration process.

4.5.2 Set LICENSES Value in :PRODUCT_SECURITY Section

```
LICENSES = FFFF-FFFF-FFFF-FFFF-FFFF-FFFF-FF
```

The value for the 'LICENSES' token needs to be replaced with your site-specific information from the Product Authorization Certification form that was shipped along with the product installation materials. If you did not receive this form, or if the form is not available to you for whatever reason, please contact Mainstar to request your license code.

- In the U.S., call Mainstar at 425-455-3589 and ask for Customer Support, or send an email to customerservice@mainstar.com.
- Outside the U.S., call your local Mainstar support office (a current list of Mainstar offices and Software Distributors can be found at www.mainstar.com).

A sample of the security section of the BRMINI PARMLIB member is shown below. All of the keywords in the BRMINI member are described in Appendix B, BRMINI Configuration Values.
If your installation’s contract is based on specific CPU checking, you will be given a LICENSES code for each CPU. Enter the codes in the :PRODUCT_SECURITY section with continuations, as shown below:

```
LICENSES = FFFF-FFFF-FFFF-FFFF-FFFF-FFFF-FF +
           FFFF-FFFF-FFFF-FFFF-FFFF-FFFF-FF
```

4.5.3 Define Space Management Method in :ASAP Section

```
SPACE_MANAGEMENT =
```

SPACE_MANAGEMENT – Define the space management method used at your installation (HSM, DMS, etc.). If you do not have HSM, the BRMINI token 'SPACE_MANAGEMENT' can be either DMS, ABR, or NONE.

4.5.4 Modify Library Names in :INSTALLATION_DATASETS Section

```
ISPPLIB1 =
LOAD1 =
MSGLIB
PARMLIB =
```

Update the tokens for ISPPLIB1, LOAD1, MSGLIB, and PARMLIB keywords, and ensure that the correct data set names are specified. The data set names specified here must be the libraries from which the product(s) will be executed. In some cases, these will also be the installation data sets, however, data centers can have conventions that differ. If these token values do not accurately represent the target libraries, unpredictable results can occur.

**Note 1:** The BRMINI member you are currently updating must reside in the library that is specified via the PARMLIB token.

**Note 2:** The data set specified for the LOAD1 token must be APF authorized (this requirement is included as a specific task in this configuration procedure).

4.5.5 Set RLS Token Values in :SI040_VALUES Section

If RLS is employed for the DFSMS/hsm MCDS, BCDS, or both, configure the following RLS token in the :SI040_VALUES section of the BRMINI member.

1. Remove the * in front of the *VSAM-CLUSTER-NAME = RLS token to activate it.
2. Change the VSAM-CLUSTER-NAME to the names of your actual MCDS, BCDS, or both.
   
   **For example:**
   
   ```
   HSM.MCDS = RLS
   HSM.BCDS = RLS
   ```

3. If multiple DFSMS/hsm MCDS or BCDS need to be specified, insert additional lines.
   
   **For example:**
   
   ```
   HSM.MCDS = RLS
   HSM.MCDS2 = RLS
   HSM.BCDS = RLS
   HSM.BCDS2 = RLS
   ```

4. Do not specify the following RLS parameter unless under the direction of Mainstar Technical Support.

   ```
   VSAM-CLUSTER-NAME.RLS_TIMEOUT = 25
   ```
4.5.6 Set CA-MIM/MII Token Values in :RESOURCE_SERIALIZATION Section

Installations running CA-MIM/MII with multiple systems and shared DASD need to set the BRMINI parameter 'MIM_GDIF' in the :RESOURCE_SERIALIZATION section to YES. This will ensure that when CA-MIM/MII GDIF is inactive, the BRM Suite data sets are protected from data corruption.

| :RESOURCE_SERIALIZATION               |
| MIM_GDIF = YES                        |

4.6 Task 6: Run JCLBUILD

Backup & Recovery Manager Suite batch job JCL library members use instream PROCs. The instream PROCs contain symbolics (&...). The purpose of JCLBUILD is to substitute BRMINI variables into the PROC statements in the JCL library members. Even though distributed product maintenance may not include new JCL members, changes to the BRMINI PARMLIB member would necessitate this step. JCLBUILD can be found in the product JCL library.

1. If you are updating into an existing JCL library, it is recommended that you back it up before running this job.
2. Modify the JCLBUILD job JCL as indicated by the comments at the beginning of the member.
3. Be sure that the BRMINI token values are set as desired before running JCLBUILD. (You may change token values later on and rerun JCLBUILD at any time).
4. Submit the JCLBUILD job.

4.7 Task 7: Create the DAD Database (Optional)

If this is a new install of ABARS Manager or All/Star, complete this task. If you are upgrading from a previous release of ABARS Manager or All/Star, skip this task.

The DAD database is required for Incremental ABARS, and optional for All/Star. The DAD database is used by the DAD started task in both Incremental ABARS and All/Star to track new or changed data.

If Incremental ABARS is included on your product license, or you plan to use the All/Star facility, create the DAD database by following the steps in the topic 'Edit and Run JCL Member DEF#DAD' (page 19).

**Incremental ABARS** – if you have ABARS Manager selectable feature Incremental ABARS licensed, the DAD is used to track new or changed data and must be active.

**All/Star** – if you have licensed both All/Star and ASAP, plan to use Application Backup & Restore, and want to use the CHANGED-SINCE-LAST-BKUP-RC parameter of the BKUPEND program, the DAD must be active.

For more information, see *Chapter 9, BRM Suite: Set Up DADSMTK Started Task (DAD)* in the *Backup & Recovery Manager Suite Installation & Maintenance Guide* (GC23-6062-00).

4.7.1 Edit and Run JCL Member DEF#DAD

To create the DAD database, edit and submit JCL member DEF#DAD.

1. Set these parameters as follows:
   - The space parameter of CYL(50,50) is recommended. As with any VSAM data set, the size needs to be monitored to ensure it does not grow past the maximum VSAM size.
   - The DAD's share options must be 2, and the key must be 56 bytes at position zero.
   - The other values (CISZ and recordsize) are variable but recommended.
   - If the DAD is allocated on SMS managed volumes, it should be assigned an SMS Management Class that prevents auto-backup.
• To size the DAD: the algorithm for the number of aggregates that can be tracked for a data sets in the DAD is:

\[
\frac{(LRECL-158)}{54} \quad \text{(rounded down)}
\]

• For the default LRECL of 4096, the limit is 72.

\[
\frac{(4096-158)}{54}
\]

2. Make the changes necessary to satisfy local requirements.
3. Save.
4. Verify that the JCL is correct.
5. Submit member DEF#DAD.
6. Check all return codes.

4.8 Task 8: Create the Backup & Recovery Manager Suite Inventory Data Set

If this is a new install of ABARS Manager or All/Star, complete this task.
If you are upgrading from a previous release of ABARS Manager or All/Star, skip this task.

The BRM Suite Inventory Data Set (BRM IDS) is a VSAM KSDS structure that is used as a repository for information about ABARS Manager (ABACKUPs and ARECOVERs) or All/Star (backups). The BRM IDS is required to use Backup & Recovery Manager Suite functions. The JCL member DEFINVDB allocates the BRM IDS and primes it before the product is invoked.

4.8.1 Edit and Run JCL Member DEFINVDB

DEFINVDB is a member of the JCL Library.

1. Edit JCL member DEFINVDB and adjust as necessary. The recommendation is to allocate candidate volumes and secondary space.
2. Verify that the name in the DEFINE CLUSTER is the same as was coded in the BRMINI member for parameter INVENTORY_DATASET in the :PRODUCT_DATASETS section.
3. If the Backup & Recovery Manager Suite Inventory Data Set is allocated on SMS-managed volumes, assign an SMS Management Class that prevents auto-backup.

   Backup & Recovery Manager Suite can be backed up or reorganized using the Dynamic Backup and Reorganization Utility described in Chapter 13 of the Backup & Recovery Manager Suite User Guide: ABARS Manager, or Chapter 10 of the Backup & Recovery Manager Suite User Guide: All/Star.

4. Submit member DEFINVDB.
5. Check all return codes.

4.8.2 How to Expand the BRM Suite Inventory Data Set

If your BRM IDS needs to be expanded due to an increase in your workload, and the BRM IDS is populated, use the steps below to increase the file size.

For example:

1. Rename old BRM IDS.
2. Modify and run DEFINVDB.
3. Use IDCAMS REPRO to REPRO the old BRM IDS to the BRM IDS you just created in step 2.

Note: For information on managing compression of the BRM IDS, please see the topic 'Compression of the BRM Suite Inventory Data Set' in the Backup & Recovery Manager Suite Installation & Maintenance Guide (GC23-6062-00).
4.9 Task 9: Convert the BRM Suite Inventory Data Set (DBINIT)

If this is a new install of ABARS Manager or All/Star, skip this task.

DBINIT is a member of the product JCL library.

When upgrading BRM Suite, you must run DBINIT against your current IDS to insert the conversion record into the IDS that BRM Suite 06.01 code checks. If you reload your IDS back to 04.03, you must apply PTFs MSC-PK00148 and MSC-PK00150 to 04.03 to remove the conversion record.

After running DBINIT, your Inventory Data Set will be inaccessible by prior releases of BRM Suite.

**Important:** If you intend to continue using prior release(s) of BRM, you need to copy your Inventory Data Set and also apply PTFs MSC-PK00148 and MSC-PK00150 to the prior release(s) of BRM Suite that you are using so they cannot damage the IDS. Contact Mainstar Technical Support for help.

4.10 Task 10: Retrofit Original Define Parameters and JCL Library

If this is a new install of ABARS Manager or All/Star, skip this task.

Several files that were defined under the previous release of BRM Suite are carried forward to the new release without redefining them. For ABARS Manager and All/Star, these files can be found in the JCL library under the names DEF#DAD, DEF#LOG, DEF#MSGQ, and DEFINVDB. For ASAP, these defines can be found in the PARMLIB under ASAPDB*. To avoid losing the original file definitions when upgrading, you may wish to retrofit these definitions into the members in the new release.

4.11 Task 11: Ensure Adequate TSO Address Space Region Size

Backup & Recovery Manager Suite requires a 4-megabyte region. A larger region may be desired if running in split screen mode.
4.12 Task 12: Verify Product Install/Configuration

To verify that the Backup & Recovery Manager Suite product is successfully installed and configured:

1. You must complete all post-installation tasks (see Chapter 5, ABARS Manager: Post-Installation Tasks, Chapter 6, All/Star: Post-Installation Tasks, and Chapter 7, ASAP Post-Installation Tasks) in the Backup & Recovery Manager Suite Installation & Maintenance Guide (GC23-6062-00) before using any of the BRM Suite functions.

2. Turn on TSO Profile options WTPMSG & MSGID so that error messages will be written to the terminal. When a TSO ID is created, NOWTPMSG and NOMSGID are the defaults. To find out if they are on, at the option prompt, key TSO PROFILE LIST. If they are not on, at the option prompt, key TSO PROFILE MSGID WTPMSG.

3. Go to TSO ISPF option 6.

4. Use the following command to invoke the BRM Suite product:

```bash
EX 'hlq.PARMLIB(BRM)'
```

**Where:** hlq is your installation high level qualifier for BRM Suite.

You should now see the Backup & Recovery Manager Suite Main Menu (shown below).

---

Menu Diagnostics Preferences Utilities Admin
-----------------------------------------------
V06.01 Backup & Recovery Manager Suite - Main Menu
Command =>

Enter an option from the list below:

1 Setup and Configuration
2 Backup and Recovery Management
3 ASAP
4 Features

Miscellaneous Functions
5 Search for Dataset
6 Reports
7 Monitor
8 History
X Exit

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---
4.13 Task 13: Specification and Display of EBCDIC Characters

**System Administrator:** Your installation may need to specify different masking characters to achieve the desired result if your code tables are different from the U.S.A. EBCDIC code set.

*Data supplied as input to batch programs or input to ISPF panels:*

For Mainstar product code shipped in binary, when specifying input where the product takes special action based on specific characters, the user is responsible for entering the EBCDIC character peculiar to their code tables, that results in the binary value for the EBCDIC character specified in the product manuals, according to the U.S.A. EBCDIC code set.

For instance, if an exclamation mark ( ! ) is called for, and your code tables do not translate the ! character to a hexadecimal 5A, you must enter the character that will translate to a 5A.

*Do not change Mainstar distributed ISPF panels:*

Mainstar programs may reference ISPF panel attribute bytes. A panel change involving an attribute byte will not be consistent with the program code.

*Product output:*

Depictions of product output shown in the product manuals are based on the U.S.A. EBCDIC code set. Actual output may vary if your EBCDIC code tables are different.

4.14 Task 14: Complete the Post-Installation Tasks

Depending on which products you have licensed, go to the appropriate chapter in the *Backup & Recovery Manager Suite Installation and Maintenance Guide* and complete the post-installation tasks:

- Chapter 5, ABARS Manager: Post-Installation Tasks
- Chapter 6, All/Star: Post-Installation Tasks
- Chapter 7, ASAP: Post-Installation Tasks

End of BRM Suite 0601 Conversion Supplement