Disk Storage

▶ **To view the disk storage information for a database:**

1. Select an Adabas database in tree-view and expand it.

2. Select **Disk Storage** in tree-view.

   The **Containers** of the database are displayed in detail-view.

   Note:
   For mainframe databases, a dropdown list in detail-view allows you to choose between a **Containers**, **Unused Storage**, and **Volume Distribution** display. The default is set to **Containers**.

▶ **To view RABNs for a mainframe database:**

1. Select an Adabas database in tree-view and expand it.

2. Select **Disk Storage** in tree-view and right-click it.

3. Select **Display ASSO/DATA Block (RABN)** on the drop-down menu.

   The **ASSO/DATA Block** information is displayed in detail-view

4. Select the RABN type (ASSO or DATA) in the selection box and enter the RABN number in the text box.

5. Enter the offset and length values to determine starting point and length of the RABN display.

   The specified RABN block from the Associator or Data Storage in hexadecimal format is displayed. Both the hexadecimal data and its alphanumeric equivalent are displayed. If the block is not assigned, zeros are displayed.

The information is organized under the following headings:

- Adding a Data Storage or Associator Dataset

- Modifying a Data Storage or Associator Dataset for Mainframe Databases

- Modifying a Data Storage or Associator Dataset for Open Systems Databases

- Recovering Unused Storage

- Reviewing Volume Distribution for a Mainframe Database

Adding a Data Storage or Associator Dataset

The Associator and Data Storage dataset sizes must be added separately. It is not possible to add both with a single operation.

▶ **To add a DATA or ASSO dataset:**

Backup the database using the ADASAV utility. This step is optional, but recommended.

1. Select **Disk Storage** in the expanded tree-view of the selected database.

   The default setting in the of the detail-view is **Containers**. Size information, RABN range and device type of each extent are displayed in a table in detail-view.

2. Click **Add**.

3. In the resulting detail-view panel, enter the required parameters to add either a DATA or ASSO dataset.

4. Click **OK** to save your modifications or **Cancel** to return to the previous panel.

   ⚠ **Warning:**
   After an *Add* operation has completed, the nucleus session will be automatically terminated to allow for the necessary formatting of the Associator or Data Storage. If the new dataset is not formatted as required, an I/O error will occur once the nucleus tries to use it and the nucleus will ABEND.

▶ **The following additional two steps are required for mainframe databases:**

1. Allocate the dataset with the operating system and format the additional space using the ADAFRM utility.

2. Add necessary JCL/JCS to all Adabas nucleus and Adabas utility execution procedures.

   For more information, please refer to *ADD: Add Dataset* in section *ADADBS: Database Services* in the *Adabas Utilities* documentation.

Modifying a Data Storage or Associator Dataset for Mainframe Databases

The Associator and Data Storage dataset sizes must be modified separately. It is not possible to modify both with a single operation.

▶ **To increase or decrease a DATA or ASSO dataset:**

Backup the database using the ADASAV utility. This step is optional, but recommended.

1. Select **Disk Storage** in the expanded tree-view of the selected database.

   The default setting in the dropdown list of the detail-view is **Containers**. Allocation, size information, RABN range and device type of each extent are displayed in a table in detail-view.

2. Click **Increase** or **Decrease**.

3. In the resulting detail-view panel, enter the required parameters to increase/decrease either a DATA or ASSO dataset.

4. Click **OK** to increase/decrease the dataset or **Cancel** to return to the previous panel.

> ⚠ **Warning:**
> **Increasing a DATA or ASSO dataset will result in the logical and physical sizes of the database being different.**
> **After an *Increase* operation has completed, the nucleus session will be automatically terminated to allow for the necessary formatting of the Associator or Data Storage. If the additional space is not formatted as required, an I/O error will occur once the nucleus tries to use it and the nucleus will ABEND.**

5. Format the additional space using the ADAFRM utility.

    For more information, please refer to *INCREASE: Increase Associator Data Storage* in section *ADADBS: Database Services* in the *Adabas Utilities* documentation.

Modifying a Data Storage or Associator Dataset for Open Systems Databases

Note:
For detailed information please refer to the *Adabas for Open Systems* documentation.

▶ **To add a new extent to an exisiting dataset:**

1. Select **Disk Storage** in the expanded tree-view of the selected database.

    The **Containers** of the database are displayed in detail-view.

2. Click **Links**.

3. In the detail-view panel, mark the dataset you want to modify and click **Add**.

    The **Add Container** panel is displayed in detail-view.

4. Select the file type you want to add and enter the path. Click **OK** to confirm.

5. Format the additional space using the ADAFRM utility.

▶ **To modify container settings:**

1. Select **Disk Storage** in the expanded tree-view of the selected database.

    The **Containers** of the database are displayed in detail-view.

2. Click **Links**.

3. In the detail-view panel, mark the dataset you want to modify and click **Modify**.

   The **Modify Container Settings** panel is displayed in detail-view.

4. Edit the container settings according to your requirements. Click **OK** to confirm.

▶ **To remove a container**

1. Select **Disk Storage** in the expanded tree-view of the selected database.

   The **Containers** of the database are displayed in detail-view.

2. Click **Links**.

3. In the detail-view panel, mark the dataset you want to modify and click **Remove**.

   The **Remove Container** panel is displayed in detail-view.

4. Confirm that you want to remove the container you have marked by clicking **OK**.

   Important:
   Please note that removing the last Associator or Data Storage container will make the database unusable.

Recovering Unused Storage

Space allocated for utility operations that ended abnormally remains unavailable unless it is intentionally recovered.

▶ **To recover unused storage:**

1. Select **Disk Storage** in the expanded tree-view of the selected database.

2. Select **Unused Storage** in the dropdown list in the detail-view panel.

   The resulting table shows the device type where the unused blocks are located, the number of unused storage blocks and cylinders, and the range of unused block numbers.

3. Click **Recover** to recover unused storage space.

Reviewing Volume Distribution for a Mainframe Database

▶ **To review the volume distribution for a mainframe database:**

1. Select **Disk Storage** in the expanded tree-view of the selected database.

2. Select **Volume Distribution** in the dropdown list in the detail-view panel.

   The **Volume Distribution** panel is displayed in detail-view. The file extents of the volume are shown indicating the RABN range and I/O count in each file.