ControlPoint

Software Version 5.6

Redistribute ControlPointMetaStore Data Files
Technical Note

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How to Redistribute ControlPointMetaStore Data Files for Maximum Performance

For best performance, **ControlPointMetastore** database files should be evenly distributed across all available drives in your environment. If they are not distributed evenly, follow the steps in this document to redistribute them in order to maximize the I/O bandwidth of the four largest (instead of "heaviest"?) types of data and index database files:

- `ControlPointMetaStore_ControlPointMetaData_data`**1 .. *n***

- `ControlPointMetaStore_ControlPointMetaData_index`**1 .. *n***

- `ControlPointMetaStore_Metadata_data`**1 .. *n***

- `ControlPointMetaStore_Metadata_index`**1 .. *n***

How to examine the Metastore Database configuration

1. Log into Microsoft SQL Server Management Studio (SSMS).

2. In the Object Explorer pane on the left side of the interface, expand the **Databases** entry.

3. Under **Databases**, right-click the **ControlPointMetastore** database, and then click **Properties**.

4. In the Database Properties dialog box that appears, do the following.

   a. Click **Files**, from **Select a page** on the left pane.
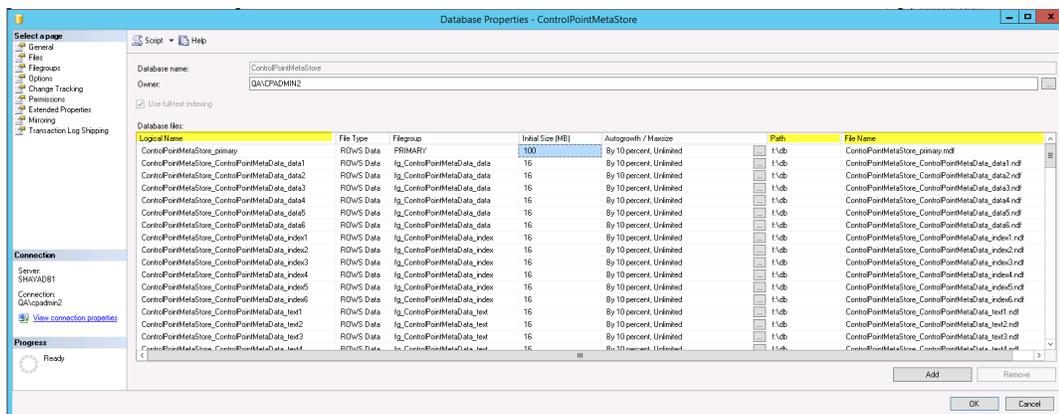
5. Most of the data stored in the database is limited to several critical files. It is important that all

these files are distributed across the available set of drives in round-robin fashion. The **File Name** for the critical files are as listed below, where `N` represents a number from 1 to 16:

`ControlPointMetaStore_`**`ControlPointMetaData_dataN`**`.ndf`

`ControlPointMetaStore_`**`ControlPointMetaData_indexN`**`.ndf`

`ControlPointMetaStore_`**`Metadata_dataN`**`.ndf`

`ControlPointMetaStore_`**`Metadata_indexN`**`.ndf`

6. There are different ways to distribute files. For example, you can do it using SQL commands, as described on the page https://dba.stackexchange.com/questions/52007/how-do-i-move-sql-server-database-files or by using Microsoft SQL Server Management Studio (SSMS), as described below.

> **NOTE:**
> For each schema, distribute all `n` files across the available set of drives in round-robin fashion. Start file distribution for each schema at the first drive in the set regardless of where you distributed the last file of the previous schema.
>
> For example, suppose you have three drives (E, F, and G) and there are four database files for each schema (n = 4). You would start distributing files as follows:
>
> | Path | File name |
> | --- | --- |
> | `E:\db\` | `ControlPointMetaStore_ControlPointMetaData_data1.ndf` |
> | `F:\db\` | `ControlPointMetaStore_ControlPointMetaData_data2.ndf` |
> | `G:\db\` | `ControlPointMetaStore_ControlPointMetaData_data3.ndf` |
> | `E:\db\` | `ControlPointMetaStore_ControlPointMetaData_data4.ndf` |
> | `E:\db\` | `ControlPointMetaStore_ControlPointMetaData_index1.ndf` |
> | `F:\db\` | `ControlPointMetaStore_ControlPointMetaData_index2.ndf` |
> | `G:\db\` | `ControlPointMetaStore_ControlPointMetaData_index3.ndf` |
> | `E:\db\` | `ControlPointMetaStore_ControlPointMetaData_index4.ndf` |
>
> Note how both the last file of the `ControlPointMetaStore_ControlPointMetaData_data` schema and the first file of `ControlPointMetaStore_ControlPointMetaData_data` are both on the E drrive.

How to redistribute files in an optimal fashion

For optimal performance, redistribution of database files is not necessary. You must first examine the ControlPointMetastore Database configuration as per the steps mentioned in the above section.

1. Stop all ControlPoint services.

2. Log into Microsoft SQL Server Management Studio (SSMS).

3. In the Object Explorer pane on the left side of the interface, expand the **Databases** entry.

4. Under **Databases**, right-click the **ControlPointMetastore** database, and then click **Properties**.

5. In the Database Properties dialog box that appears, do the following.

   a. For each schema in the **Logical Name** column that you want to move (as previously described), note its actual location on disk in the **Path** and **File Name** columns.
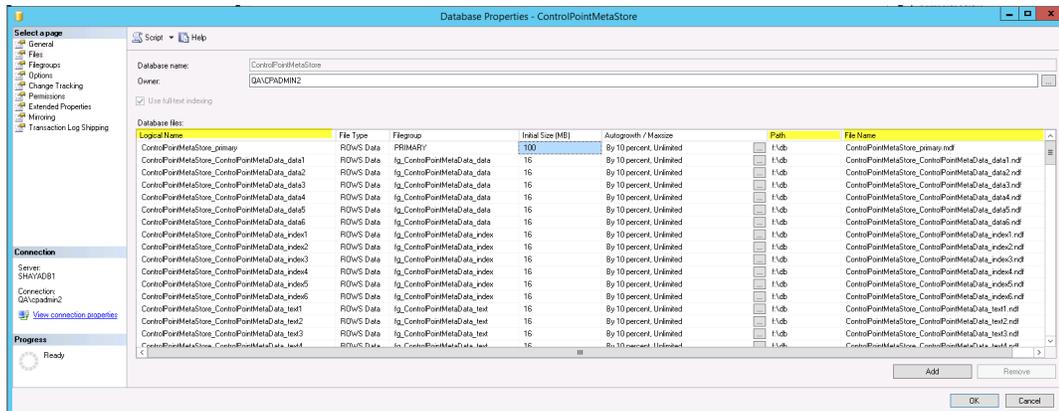
   For example, given the previous figure:

   - **Logical Name:** `ControlPointMetaStore_ControlPointMetaData_data1`
     - **Path:** `F:\db\`
     - **File Name:** `ControlPointMetaStore_ControlPointMetaData_data1.ndf`
   - **Logical Name:** `ControlPointMetaStore_ControlPointMetaData_data2`
     - **Path:** `F:\db\`
     - **File Name:** `ControlPointMetaStore_ControlPointMetaData_data2.ndf`

   b. Note the **Path** and **File Name** values for the `ControlPointMetaStore_primary.mdf` file.

   You will need this information when reattaching the database in a later step.

   c. Click **Cancel**.

6. Detach the **ControlPointMetastore** database as follows:

    a. Right-click the **ControlPointMetastore** database, click **Tasks**, and then click **Detach**.

    b. On the Detach Databases dialog box, click **OK**.

7. Distribute the database files you noted to new locations and keep track of their new paths.

8. Right-click **Databases**, and then click **Attach**.

9. Click **Add**, browse to the `ControlPointMetaStore_primary.mdf` file, select it, and then click **OK**.

10. For each database file you moved, set its **Current File Path** to the correct value from your notes.

    If the **Current File Path** value for a particular file is incorrect, the **Message** column contains the text "Not Found". You must correct the path for any such entries because SSMS will not let you the attach the database until all files point to the correct location.

11. Click **OK**.

    SSMS attaches the database, which makes it ready for use.

12. Restart Metastores and all other ControlPoint services that you stopped.