Note Language: English   **Version: 1 Validity:**   Valid Since 27.11.2011

Summary

Symptom
Prior to this note, it was not clear which SAP buffers were used for BPC Meta/Master Data server side caching. This meant that SAP buffer sizes had to be calculated manually and the tuning/sizing of these buffers specifically for BPC NetWeaver was a difficult process

Other terms
BPC Performance, BPC Memory Management, BPC System Tuning, BPC Server Caching

Reason and Prerequisites
The default profile parameters related to SAP buffers are not optimized for the new BPC NetWeaver Meta/Master Data caching mechanism. These new caching mechanisms in BPC NetWeaver rely heavily on having sufficient sizes set for specific SAP buffers. If these SAP buffers are not configured correctly for BPC NetWeaver, then BPC Meta/Master Data cannot be fully cached within the Application Server Memory. If the BPC Meta/Master Data is not fully cached, additional overhead will be added to the back end server runtime due to direct database access and this will impact the overall performance of BPC NetWeaver.

Solution
The buffer parameters listed below must be set to an appropriate size in order to properly utilize server side caching of BPC Meta/Master Data.

- o   SAP Table Buffer (See note **480710** for details **)**

    - Parameter: **zcsa/table_buffer_area**

    - Parameter: **zcsa/db_max_buftab**

- o   Shared Object Buffer (See note **1657612** for details)

    - Parameter: **abap/shared_objects_size_MB**

    - This buffer is only used when shared memory is turned on for BPC NetWeaver. Please see note 1657612 for additional details on how to enable shared memory for BPC NetWeaver.

- o   Export/Import Buffer (See note **702728** for detail)

    - Parameter: **rsdb/obj/buffersize**

    - Parameter: **rsdb/obj/max_objects**

    - You only have to adjust this buffer if note **1634921** is applied or BPC 10NW has been upgraded to SP04

After applying this note or upgrading to BPC 10NW SP05, you can run the report **UJA_BPC_BUFFER_SIZER** to calculate the recommended size of the buffers listed above.

Note

o   The buffer sizes are calculated based on the total volume of
    Meta/Master Data for the BPC Environments specified; it does NOT
    take other SAP Applications into account. You must determine the
    final profile parameter values by combining what is calculated by
    the tool along with all other external factors (such as hardware
    capacity of your server, and usage of the buffers by other
    applications).

o   You will need to re-adjust the parameters when the meta/master data
    volume grows dramatically.

o   BPC 10 NetWeaver will not use the Shared Object Buffer by default.
    As of SP05, you can switch it on in the IMG after you have set it
    to an adequate size. Please see note **1657612** for additional
    details on how to enable shared memory for BPC NetWeaver.

o   If profile parameter **zcsa/table_buffer_area** is greater than
    2GB and your Application Server is on a 32bit platform, you need to
    adjust shared memory pool 19 to '0' (profile parameter:
    ipc/shm_psize_19).

Header Data

Release Status:	Released for Customer
Released on:	14.12.2011 01:56:09
Master Language:	English
Priority:	Correction with medium priority
Category:	Performance
Primary Component:	EPM-BPC-NW NetWeaver Version

Valid Releases

Software Component	Release	From Release	To Release	and Subsequent
CPMBPC	800	800	800	

Support Packages

Support Packages	Release	Package Name
CPMBPC	800	SAPK-80005INCPMBPC

Related Notes

Number	Short Text
1752937	SAP Buffer Tuning for BPC 750/753NW
1657612	Enable shared memory
1637439	Share memory for hierarchy
1634921	Use ABAP "shared buffer" to buffer big dimension cache
702728	Profile parameter for export/import buffer instances

Number	Short Text
669550	Shared memories larger than 2 GB
480710	Profile parameters for table buffers

Correction Instructions

Correction Instructions	Valid from	Valid to	Software Component	Type *)	Reference Correction	Last Changed
1406995	800	800	CPMBPC	C	E1FK016600	13.12.2011 18:36:52

*) C Correction, B Preprocessing, A Postprocessing, M Undefined Work