

---

## SAP Data Compression and BASIS housekeeping

**Decrease the Volume of Database and Archive unused BASIS objects**

SBAS Consulting. Reliable Technical Solutions for your SAP system

---



---

## Advanced Compression with Oracle 12c

Oracle Advanced compression allows to significantly reduce storage space occupied by database indexes and tables without any data loss. **Our practice shows that SAP ECC database can be compressed twice, and BW – three times.**

The benefits of Advanced Compression go beyond just on-disk storage savings. One significant advantage is Oracle's ability to read compressed blocks (data and indexes) directly, in memory, without uncompressing the blocks. It helps to improve performance due to the reduction in I/O and the reduction in system calls related to the I/O operations. Further the buffer cache becomes more efficient by storing more data without having to add memory.

The results of Advanced Compression implemented in OLTP (SAP ECC 6.0) and OLAP (SAP BW 7.31) databases are presented in the tables below as an example:

System	Tablespace name	DATA, MB before compression	DATA, MB after compression	Compression rate
ECC_1	PSAPSR3	16 515 072	8 231 322	2,01
ECC_2	PSAPSR3	11 356 078	5 924 454	1,92
ECC_3	PSAPSR3	8 451 523	3 995 075	2,12

System	Tablespace name	DATA, MB before compression	DATA, MB after compression	Compression rate
BW_1	PSAPBIW	2 176 881	1 158 465	1,88
BW_2	PSAPBIW	1 611 272	818 170	1,97
BW_1	PSAPBIWDIM	393 705	242 724	1,62
BW_2	PSAPBIWDIM	288 773	182 312	1,58
BW_1	PSAPBIWFACT	4 376 415	2 016 369	2,17
BW_2	PSAPBIWFACT	4 851 731	2 437 586	1,99
BW_1	PSAPBIWODS	9 852 310	2 763 060	3,57
BW_2	PSAPBIWODS	13 289 186	3 541 849	3,75
			Average	2,79

### Housekeeping of BASIS data objects

In addition to compression we can help you to implement housekeeping of BASIS data objects. The complete scope can be found in SAP Note 2388483 (**please note**, it doesn't deal with business data tables).

---

## Trademarks used in the document:

**Registered trademarks of SAP AG:** SAP, BASIS, ECC, ECC 6.0, BW and all logos related to SAP products.

**Oracle** ® is the registered trademark of Oracle Corp., California, USA.

Oracle 12c, Oracle Advanced Compression are products of Oracle Corp., California, USA.

SBAS-Consulting does not own or produce any of above products, we just provide consulting services on SAP related products.