

Environment

- SAP Netweaver Business Warehouse 3.0 onwards

Resolution

The note provides a list of technical limitations related to the design of infoproviders and characteristics.

Characteristics

- **Length:** Characteristic values can have a maximum of 60 characters. The concatenated value (or total of the characteristic lengths in the compounding plus the length of the characteristic itself) is counted. However, the entry of variable values is limited to 45 characters due to a restriction in the SAP GUI. This restriction does not apply in the Web reporting.
- **Length of the texts:** The text table can have up to 3 text fields- short text (20 characters), medium text (40 characters) and long text (60 characters).
 - With the upcoming release (BW 7.4) the upper limit for texts is increased to 1333 characters.
- **Compound characteristics:** A characteristic can contain a maximum of 13 additional characteristics in the compounding.
- **Attributes:** The total amount of attributes is the upper limit of fields in the master data tables. The maximum number of fields in those tables are 749.
 - Time dependent example for calculation:

$$749$$
 - 1 # (for the Infoobject itself)
 - X # (for number of compoundings)
 - 2 # (for DATE_FROM and DATE_TO)
 - 1 # (field OBJVERS)
 - 1 # (field CHANGED)
 - Y (for the number of time dep. Attrs)
$$744 - X - Y$$
- **Navigational attributes:** There is no fix limit for the navigational attributes, however a warning is raised if there are more than 80. This can be ignored, but more than this can cause serious performance problems during reporting and data loads. Having more than 80 navigational attributes is therefore not recommended and the characteristic should be splitted.

Infocubes

- **Dimensions:** 13 additional dimensions can be created and 3 is already reserved for time, unit and package.
- **Characteristics:** One dimension can contain a total number of 248 characteristics.
- **Key figures:** The infocube can contain up to 233 key figures.

Datastore objects

- **Key fields:** The DSO can contain a total of 16 key fields. This number is limited to 12 for standard datastore objects.
- **Fields/Characteristics:** The total number of fields cannot be higher than 740.

HANA Optimized DSO

- **Key fields:** With the delivery of SP08 of BW 7.3 it is possible to create a standard DSO with more than 16 key fields. This applies only for planning DSO-s.
http://help.sap.com/saphelp_nw73/helpdata/en/13/7ac752744c4235a09b58e13be08f61/content.htm?frameset=/en/a2/fc644eb17e43b3a6442c5c522ad55e/frameset.htm

Tables and structures

- The dictionary has a general limitation for the tables and structures set up, which is 4030 bytes. In case the underlying database can handle bigger tables, this parameter can be changed with the method from note [636217](#) (TABLEN in include RADTBCON). For most scenarios however this size should be enough.

Header Data

Released On 22.03.2013 14:04:41

Release Status Released to Customer

Component BW-WHM-DBA Data Basis

Other Components

BW-SYS Basis System and Installation
BW-WHM-DBA-IOBJ InfoObjects
BW-WHM-DBA-ICUB InfoCubes
BW-WHM-DBA-ODS DataStore-Object/ODS-Object

Priority Normal

Category How To

Product

This document is not restricted to a product or product version

References

This document refers to:

CSS SAP Notes

- 1711348 [Integration planning:DSO in Data Warehousing Workbench](#)
- 1717830 [BW corrections for DSO planning](#)
- 1799168 [Release DSO Plannig for PAK](#)
- 540868 [Technical limits for characteristics](#)
- 545923 [FAQ: Tech. restrictions/customer namespace/permitted chars](#)
- 636217 [DDIC activation error as table width greater than 1962 bytes](#)
- 1710130 [HANADB: Preparation for IP/DataStores for direct writing](#)