# **CSV** data specification

CSV data are created by a conversion of XML files representing the configuration of several objects of the same type in the D2000 System.

## CSV data sections

- 1. [structure\_name] sections represent the reserved CFGRECORDS sections of XML files.
- 2. [REFERENCES] section represents the reserved REFERENCES sections of XML files.
- 3. [MEMBEROFLOGGROUP] section represents the reserved MEMBEROFLOGGROUP sections of XML files.
- 4. [MEMBEROFRESGROUP] section represents the reserved MEMBEROFRESGROUP sections of XML files.
- 5. [CRC] section represents the reserved CRC sections of XML files.
- 6. [CVSSECTION] section representing CVS tags.

CSV file contains the above mentioned order of sections that are separated by one or more space lines. The first section is [TObiltemData] representing the object identification structures. The section is followed by the sections for the other object structures of the given type.

Note: The reserved OBJLIFELOGS sections of XML files are not transformed into CSV file. [CVSSECTION] section does not represent the reserved section of XML file but it stores the CVS tags existing in the note of XML files. It enables a backward conversion. This section must not be edited!

### Syntax of sections

- The first row consists of the section name enclosed in the square brackets. ٠
  - The second row contains the columns of section separated by semicolon
    - the name of the first column is always OBJECT\_NAME,
    - ° the first column is followed by the names of attributes of proper structure or section.
- · The third and next rows contain the values of columns separated by semicolon.

### Syntax of the column names

- The name of columns for attributes that are nested more deeply in structure than in the first level, contains also a prefix of the nesting.
  - The special type of columns can also contain the suffix in the name:
    - suffix [R] belongs to the columns of RAW DATA type the values of these columns contain the names of bin files; They consist of object name, a path of the nesting in XML file and bin,
    - suffix [T] belongs to the columns of absolute time type,
    - suffix [C] belongs to the columns of CDATA type,
    - the other columns do not contain the suffix.

The values, belonging to values of String type in D2000 System, are checked if they contain some of these sign: CR, LF, ";" and """. If the text contains these signs, the quotation marks will be duplicated and the whole text will be enclosed in the another quotation marks.

#### Exception:

An exception for the columns in the [REFERENCES] section: The column OBJECT NAME is followed by the columns for <HOBJ REF> structure and finally by the columns for <COL\_REF> structure. There are the attribute names of two structures one after another. If the row of values in [REFERENCES] section describes the <HOBJ\_REF> structure the values are set for both OBJECT\_NAME and the columns

defining the <HOBJ\_REF> structure. If the <COL\_REF> structure is described the values are set only for the columns defining the <COL\_REF> structure. It also holds that one row of the <HOBJ\_REF> structure is followed by several rows of the <COL\_REF> structure.

