

# DipTrace XML. Schematics.

*File format specification*

## File structure

1. File title.....	7
2. Information about file, <Source>.....	7
3. Component Library used in the project, <Library>.....	7
4. Schematic description section, <Schematic>.....	7
4.1. Schematic sheet settings, <SheetSettings>.....	7
4.1.1. Display of Titles, <DisplayTitles>.....	7
4.1.2. Sheet borders display, <DisplaySheet>.....	7
4.1.3. Active sheet, <ActiveSheet>.....	8
4.1.4. List of individual settings of sheets, <Sheets>.....	8
4.1.4.1. Individual settings of sheet, <Sheet>.....	8
4.1.4.1.1. Sheet sequence number, <Id>.....	8
4.1.4.1.2. Sheet name, <Name>.....	8
4.1.4.1.3. Sheet type, <Type>.....	8
4.1.4.1.4. Hierarchy block identifier, <BlockId>.....	8
4.1.4.1.5. X coordinate of displayed sheet centre, <XPos>.....	8
4.1.4.1.6. Y coordinate of displayed sheet centre, <YPos>.....	9
4.1.4.1.7. Sheet display scale, <Scale>.....	9
4.1.4.1.8. Sheet width, <SheetWidth>.....	9
4.1.4.1.9. Sheet Height, <SheetHeight>.....	9
4.1.4.1.10. Left border margin, <LeftMargin>.....	9
4.1.4.1.11. Top border margin, <TopMargin>.....	9
4.1.4.1.12. Right border Margin, <RightMargin>.....	9
4.1.4.1.13. Bottom border Margin, <BottomMargin>.....	9
4.1.4.1.14. Parameters of sheet zones, <BorderZones>.....	10
4.1.4.1.14.1. Display of sheet zones, <Visible>.....	10
4.1.4.1.14.2. Number of horizontal zones, <HorzZones>.....	10
4.1.4.1.14.3. Number of vertical zones, <VertZones>.....	10
4.1.4.1.14.4. Zone Template, <Standard>.....	10
4.1.4.1.14.5. Font Name, <FontName>.....	10
4.1.4.1.14.6. Font size, <FontSize>.....	10
4.1.4.1.14.7. Font line width, <FontLineWidth>.....	10
4.1.4.1.14.8. Zone Border Display, <Border>.....	11
4.1.4.1.14.9. Horizontal Zone Width, <HorzBorderSize>.....	11
4.1.4.1.14.10. Vertical Zone Width, <VertBorderSize>.....	11
4.1.4.1.15. Bottom-Right Title Block parameters, <BottomRightBlock>.....	11
4.1.4.1.15.1. Title Block name, <Name>.....	11
4.1.4.1.15.2. List of Title Block columns, <ColumnWidths>.....	11
4.1.4.1.15.2.1. Column width, <Item>.....	12
4.1.4.1.15.3. List of Title Block rows, <RowHeights>.....	12
4.1.4.1.15.3.1. Row height, <Item>.....	12
4.1.4.1.15.4. List of cell borders in Title Block column, <Cells>.....	12
4.1.4.1.15.4.1. List of cell borders in column row, <Item>.....	12
4.1.4.1.15.4.1.1. Cell borders in column row, <Item>.....	13
4.1.4.1.15.5. List of Title Block fields, <Fields>.....	13
4.1.4.1.15.5.1. Title Block field parameters, <Field>.....	13
4.1.4.1.15.5.1.1. Main parameters of the field.....	13
4.1.4.1.15.5.1.2. List of text lines, <TextLines>.....	14

4.1.4.1.15.5.1.2.1. Text line, <TextLine>.....	14
4.1.4.1.15.5.1.3. Font Name, <FontName>.....	14
4.1.4.1.16. Bottom-Left Title Block parameters, <BottomLeftBlock>.....	14
4.1.4.1.17. Top-Right Title Block parameters, <TopRightBlock>.....	14
4.1.4.1.18. Top-Left Title Block parameters, <TopLeftBlock>.....	15
4.1.4.1.19. External Top-Left Title Block parameters, <ExtTopLeftBlock>.....	15
4.1.4.1.20. External Bottom-Left Title Block parameters, <ExtBottomLeftBlock>.....	15
4.2. General settings, <Settings>.....	15
4.2.1. Part Markings, <Markings>.....	15
4.2.1.1. Font, <FontVector>.....	15
4.2.1.2. Font Name, <FontName>.....	15
4.2.1.3. Font size, <FontSize>.....	15
4.2.1.4. Font Line Width, <FontWidth>.....	15
4.2.1.5. Font Scale, <FontScale>.....	15
4.2.1.6. Font color used, <UsePartFontColor>.....	16
4.2.1.7. Custom font color, <FontColor>.....	16
4.2.1.8. General markings settings for RefDes, <RefDesGlobal>.....	16
4.2.1.9. General markings settings for Name, <NameGlobal>.....	16
4.2.1.10. General markings settings for Value, <ValueGlobal>.....	16
4.2.1.11. General markings settings for Manufacturer, <ManufacturerGlobal>.....	17
4.2.1.12. General markings settings for Datasheet, <DatasheetGlobal>.....	17
4.2.1.13. List of general markings settings for Additional Fields, <AddFieldsGlobal>.....	17
4.2.1.13.1. General markings settings for Additional Field, <AddField>.....	17
4.2.1.13.1.1. Main general markings settings for Additional Field.....	17
4.2.1.13.1.2. Additional Field Name, <Name>.....	18
4.2.1.13.1.3. Additional Field Value, <Value>.....	18
4.2.2. Grid settings, <Grid>.....	18
4.2.2.1. Grid display, <Visible>.....	18
4.2.2.2. Snap to grid, <Snap>.....	18
4.2.2.3. Grid Size, <Size>.....	18
4.2.3. Origin Settings, <Origin>.....	18
4.2.3.1. Origin display, <Visible>.....	18
4.2.3.2. Origin color, <AxisColor>.....	18
4.2.3.3. X coordinate of Origin, <X>.....	19
4.2.3.4. Y coordinate of Origin, <Y>.....	19
4.2.4. Line Width settings, <LineWidth>.....	19
4.2.4.1. Line Width for Wire, <Wire>.....	19
4.2.4.2. Node Diameter, <NodeSize>.....	19
4.2.4.3. Line Width for Bus, <Bus>.....	19
4.2.4.4. Line Width for Table, <Table>.....	19
4.2.4.5. Line Width for Titles, <Titles>.....	19
4.2.5. Bus Connection settings, <BusConnections>.....	20
4.2.5.1. Show, <Show>.....	20
4.2.5.2. Position, <Position>.....	20
4.2.5.3. Font size, <FontSize>.....	20
4.2.6. Settings of Pin Numbers, <PinNumbers>.....	20
4.2.7. Hide Power and Gnd setting, <HidePower>.....	20
4.2.8. Project directory, <ProjectDir>.....	20
4.3. Project libraries, <ProjectLibs>.....	21
4.3.1. Sorted.....	21

4.3.2. List of folders with project libraries, <Folders>.....	21
4.3.2.1. Folder with project libraries, <Folder>.....	21
4.3.2.1.1. Full path to the project libraries folder, <Path>.....	21
4.3.2.1.2. Path to the project libraries folder via environment variable, <Var>.....	21
4.3.3. List of project library files, <Libs>.....	21
4.3.3.1. Project library file, <Lib>.....	21
4.3.3.1.1. Full path to the project library file, <Path>.....	21
4.3.3.1.2. Path to project library file via environment variable, <Var>.....	21
4.4. Design Cache library, <DesignCache>.....	22
4.5. List of project Net Classes, <NetClasses>.....	22
4.5.1. Project Net Class settings, <NetClass>.....	22
4.5.1.1. Main settings of project Net Class.....	22
4.5.1.2. Net Class name, <Name>.....	22
4.6. ERC Settings, <ERC>.....	22
4.6.1. Main ERC settings.....	22
4.6.2. Template of names of Power Pins, <VCCTemplate>.....	23
4.6.3. Template of names of Ground Pins, <GNDTemplate>.....	23
4.7. List of schematic component parts, <Components>.....	23
4.7.1. Description of schematic component part, <Part>.....	23
4.7.1.1. Main parameters of component part.....	23
4.7.1.2. Component RefDes, <RefDes>.....	24
4.7.1.3. Component part RefDes, <PartRefDes>.....	25
4.7.1.4. Component part name, <PartName>.....	25
4.7.1.5. Component part Value, <Value>.....	25
4.7.1.6. Component Name, <Name>.....	25
4.7.1.7. Component library file, <LibPath>.....	25
4.7.1.7.1. Full path to the component library file, <Path>.....	25
4.7.1.7.2. Path to the component library file via environment variable, <Var>.....	25
4.7.1.8. Individual marking settings for RefDes, <RefDesMarking>.....	25
4.7.1.9. Individual marking settings for Name, <NameMarking>.....	26
4.7.1.10. Individual marking settings for Value, <ValueMarking>.....	26
4.7.1.11. Individual marking settings for Manufacturer, <ManufacturerMarking>.....	27
4.7.1.12. Individual marking settings for Datasheet, <DatasheetMarking>.....	27
4.7.1.13. List of Additional Fields, <AddFields>.....	27
4.7.1.13.1. Description of Additional Field and individual settings of its marking, <AddField> .....	27
4.7.1.13.1.1. Main parameters of Additional Field.....	28
4.7.1.13.1.2. Additional Field Name, <Name>.....	28
4.7.1.13.1.3. Additional Field Value, <Text>.....	28
4.7.1.14. List of part pins, <Pins>.....	28
4.7.1.14.1. Description of the part pin, <Pin>.....	29
4.7.1.15. Category assigned to component <Category>.....	29
4.7.1.15.1. Sequence number of the category in the list, <Index>.....	29
4.7.1.15.2. Name of the category assigned to component, <Name>.....	29
4.7.1.15.3. List of Category types and subtypes assigned to component, <CategoryTypes>.....	29
4.7.1.15.3.1. Type and subtype description, <CategoryType>.....	29
4.7.1.15.3.1.1. Type name and number, <Type>.....	29
4.7.1.15.3.1.2. Subtype name and number, <SubType>.....	29
4.8. List of the schematic nets, <Nets>.....	30
4.8.1. Description of schematic net, <Net>.....	30

4.8.1.1. Main parameters of net.....	30
4.8.1.2. Net name, <Name>.....	30
4.8.1.3. List of net pins, <Pins>.....	31
4.8.1.3.1. Net pin, <Item>.....	31
4.8.1.4. List of wires, <Wires>.....	31
4.8.1.4.1. Net wire, <Wire>.....	31
4.8.1.4.1.1. Main parameters of wire.....	31
4.8.1.4.1.2. List of points connected by wire, <Points>.....	32
4.8.1.4.1.3. Points connected by wire, <Point>.....	33
4.9. List of differential pair of schematic, <DifferentialPairs>.....	33
4.9.1. Differential pair description, <DifferentialPair>.....	33
4.9.1.1. Main parameters of differential pair.....	33
4.9.1.2. Differential Pair name, <Name>.....	33
4.10. List of buses of the schematic, <Buses>.....	34
4.10.1. Schematic bus description, <Bus>.....	34
4.10.1.1. Main bus parameters.....	34
4.10.1.2. List of bus nets, <Nets>.....	34
4.10.1.2.1. Bus net description, <Net>.....	34
4.10.1.3. List of bus wires, <Wires>.....	34
4.10.1.3.1. Bus wire, <Wire>.....	34
4.10.1.3.1.1. Main parameters of the bus wire.....	34
4.10.1.3.1.2. List of points connected by wire, <Points>.....	35
4.10.1.3.1.3. Points connected by wire, <Point>.....	35
4.11. List of schematic Bus Connectors, <BusConnectors>.....	36
4.11.1. Description of Bus Connector, <BusConnector>.....	36
4.11.1.1. Main parameters of Bus Connector.....	36
4.11.1.2. Bus Connector name, <Name>.....	36
4.12. List of shapes, <Shapes>.....	37
4.12.1. Shape description, <Shape>.....	37
4.12.1.1. Main parameters of shape.....	37
4.12.1.2. List of shape points, <Points>.....	38
4.12.1.2.1. Shape point coordinates, <Point>.....	38
4.12.1.3. Font Name, <FontName>.....	39
4.12.1.4. List of lines of "Text" shape, <TextLines>.....	39
4.12.1.4.1. Lines of "Text" shape, <TextLine>.....	39
4.12.1.5. Picture file, <PictureFile>.....	39
4.12.1.5.1. Full path to the picture file, <Path>.....	39
4.12.1.5.2. Path to the picture file via environment variable, <Var>.....	39
4.13. List of tables, <Tables>.....	39
4.13.1. Table description, <Table>.....	39
4.13.1.1. Main parameters of table.....	39
4.13.1.2. Font Name, <FontName>.....	41
4.13.1.3. Table name, <Name>.....	41
4.13.1.4. List of width values of table columns, <ColumnWidths>.....	41
4.13.1.4.1. Column width, <Item>.....	41
4.13.1.5. List of height values of table rows, <RowHeights>.....	41
4.13.1.5.1. Row height, <Item>.....	41
4.13.1.6. List of table columns, <Cells>.....	41
4.13.1.6.1. List of rows in the table column, <Cell>.....	42
4.13.1.6.1.1. Cell parameters in the column row of table, <Cell>.....	42

4.13.1.6.1.1.1. Main parameters of cell.....	42
4.13.1.6.1.1.2. Font Name, <FontName>.....	42
4.13.1.6.1.1.3. List of lines of text in cell, <TextLines>.....	42
4.13.1.6.1.1.3.1. Lines of text in cell, <TextLine>.....	43
4.14. Simulator parameters, <Simulator>.....	43
4.14.1. General parameters of simulator.....	43
4.14.2. List of selected signals, <Signals>.....	43
4.14.2.1. Description of the selected signal, <Signal>.....	43
4.14.2.1.1. Main parameters of the signal.....	43
4.14.2.1.2. Signal name, <DisplayName>.....	44
4.14.3. "Small-Signal AC" settings, <SmallSignalAC>.....	44
4.14.3.1. Variation, <Variation>.....	44
4.14.3.2. Number of points, <NumberOfPoints>.....	44
4.14.3.3. Start Frequency, <StartFrequency>.....	44
4.14.3.4. Stop Frequency, <StopFrequency>.....	44
4.14.4. "DC Transfer Function" settings, <DCTransferFunc>.....	44
4.14.4.1. Source Type, <SourceType>.....	44
4.14.4.2. Source RefDes, <SourceRefDes>.....	45
4.14.4.3. Start Value, <StartValue>.....	45
4.14.4.4. Step, <Step>.....	45
4.14.4.5. Stop Value, <StopValue>.....	45
4.14.4.6. Second Source, <SecondSource>.....	45
4.14.4.7. Second Source Type, <SecondSourceType>.....	45
4.14.4.8. Second Source RefDes, <SecondSourceRefDes>.....	45
4.14.4.9. Second Source Start Value, <SecondStartValue>.....	46
4.14.4.10. Second Source Step, <SecondStep>.....	46
4.14.4.11. Second Source Stop Value, <SecondStopValue>.....	46
4.14.5. "Transient" settings of the simulator, <Transient>.....	46
4.14.5.1. Start Time, <StartTime>.....	46
4.14.5.2. Step, <Step>.....	46
4.14.5.3. Stop Time, <StopTime>.....	46
4.14.6. "Noise" settings of the simulator, <Noise>.....	46
4.14.6.1. Output Net, <OutputNet>.....	46
4.14.6.2. Reference Net, <ReferenceNet>.....	47
4.14.6.3. Source, <Source>.....	47
4.14.6.4. Variation, <Variation>.....	47
4.14.6.5. Number of Points, <NumberOfPoints>.....	47
4.14.6.6. Start Frequency, <StartFrequency>.....	47
4.14.6.7. Stop Frequency, <StopFrequency>.....	47
4.14.6.8. Points per Summary, <PointsPerSummary>.....	47
4.14.7. Gnd Net Name, <GndNetName>.....	47
4.15. List of groups, <Groups>.....	48
4.15.1. Group description, <Group>.....	48

**With the default value, some parameters are not written to the file.**

### 1. File title

```
<?xml version="1.0" encoding="UTF-8"?>
```

Description of the XML file version and encoding.

### 2. Information about file, <Source>

```
<Source Type="DipTrace-Schematic" Version="4.3.0.3" Units="inch">
```

**Type**="DipTrace-Schematic" – file created in DipTrace Schematics;

**Version**="4.3.0.3" – version of the file format;

**Units**="inch" – Measurement units of dimensions in the file:

mm – millimetres;  
inch – inches;  
mil – mils.

### 3. Component Library used in the project, <Library>.

```
<Library Type="DipTrace-ComponentLibrary" Version="4.3.0.3" Units="inch">  
{...}  
</Library>
```

Fully corresponds to the description of the Component Editor XML format. Each component is assigned a unique "ComponentStyle" to associate it with the schematic (4.7.1.1).

### 4. Schematic description section, <Schematic>

#### 4.1. Schematic sheet settings, <SheetSettings>

##### 4.1.1. Display of Titles, <DisplayTitles>

```
<DisplayTitles>Y</DisplayTitles>
```

DisplayTitles	Bool	Display of titles on the sheets: "Y" – enabled; "N" – disabled.
---------------	------	---

##### 4.1.2. Sheet borders display, <DisplaySheet>

```
<DisplaySheet>Y</DisplaySheet>
```

DisplayTitles	Bool	Sheet borders display: "Y" – enabled; "N" – disabled.
---------------	------	---

### 4.1.3. Active sheet, <ActiveSheet>

<ActiveSheet>0</ActiveSheet>

ActiveSheet	Int	Active sheet sequence number (Id).
-------------	-----	------------------------------------

### 4.1.4. List of individual settings of sheets, <Sheets>

<Sheets> – start of list of individual settings of sheets;  
{...} – individual settings of sheets (Sheet);  
</Sheets> – end of the list of individual settings of sheets.

#### 4.1.4.1. Individual settings of sheet, <Sheet>

##### 4.1.4.1.1. Sheet sequence number, <Id>

<Id>0</Id>

Id	Int	Sheet sequence number (Id).
----	-----	-----------------------------

##### 4.1.4.1.2. Sheet name, <Name>

<Name>Sheet 1</Name>

Name	Text	Sheet name.
------	------	-------------

##### 4.1.4.1.3. Sheet type, <Type>

<Type>Normal</Type>

Type	Text	Sheet type: "Normal" – ordinary sheet; "Hierarchy Block" – hierarchy block.
------	------	---

##### 4.1.4.1.4. Hierarchy block identifier, <BlockId>

<BlockId>0</BlockId>

BlockId	Int	Hierarchy block identifier.
---------	-----	-----------------------------

##### 4.1.4.1.5. X coordinate of displayed sheet centre, <XPos>

<XPos>0</XPos>

XPos	Real	X coordinate of the displayed sheet centre.
------	------	---



#### 4.1.4.1.6. Y coordinate of displayed sheet centre, <YPos>

<YPos>0</YPos>

YPos	Real	Y coordinate of the displayed sheet centre.
------	------	---

#### 4.1.4.1.7. Sheet display scale, <Scale>

<Scale>100</Scale>

Scale	Real	Sheet display zoom factor.
-------	------	----------------------------

#### 4.1.4.1.8. Sheet width, <SheetWidth>

<SheetWidth>420</SheetWidth>

SheetWidth	Real	Sheet width.
------------	------	--------------

#### 4.1.4.1.9. Sheet Height, <SheetHeight>

<SheetHeight>297</SheetHeight>

SheetHeight	Real	Sheet height.
-------------	------	---------------

#### 4.1.4.1.10. Left border margin, <LeftMargin>

<LeftMargin>5</LeftMargin>

LeftMargin	Real	Left border margin.
------------	------	---------------------

#### 4.1.4.1.11. Top border margin, <TopMargin>

<TopMargin>5</TopMargin>

TopMargin	Real	Top border margin.
-----------	------	--------------------

#### 4.1.4.1.12. Right border Margin, <RightMargin>

<RightMargin>5</RightMargin>

RightMargin	Real	Right border margin.
-------------	------	----------------------

#### 4.1.4.1.13. Bottom border Margin, <BottomMargin>

<BottomMargin>5</BottomMargin>

BottomMargin	Real	Bottom border margin.
--------------	------	-----------------------

#### 4.1.4.1.14. Parameters of sheet zones, <BorderZones>

##### 4.1.4.1.14.1. Display of sheet zones, <Visible>

<Visible>Y</Visible>

Visible	Bool	Display of sheet zones: "Y" – enabled; "N" – disabled.
---------	------	--

##### 4.1.4.1.14.2. Number of horizontal zones, <HorzZones>

<HorzZones>4</HorzZones>

HorzZones	Int	Number of horizontal zones.
-----------	-----	-----------------------------

##### 4.1.4.1.14.3. Number of vertical zones, <VertZones>

<VertZones>4</VertZones>

VertZones	Int	Number of vertical zones.
-----------	-----	---------------------------

##### 4.1.4.1.14.4. Zone Template, <Standard>

<Standard>0</Standard>

Standard	Int	Zone Template: "0" – ANSI; "1" – ISO.
----------	-----	---

##### 4.1.4.1.14.5. Font Name, <FontName>

<FontName>Tahoma</FontName>

FontName	Text	The name of the TrueType font. Not used for Zone Information.
----------	------	---

##### 4.1.4.1.14.6. Font size, <FontSize>

<FontSize>10</FontSize>

FontSize	Int	Font size.
----------	-----	------------

##### 4.1.4.1.14.7. Font line width, <FontLineWidth>

<FontLineWidth>-2</FontLineWidth>

FontLineWidth	Int	Line width for vector font: -3 – thin;
---------------	-----	---

		-2 – normal; -1 – bold; >0 – custom, actual value is set here.
--	--	--

#### 4.1.4.1.14.8. Zone Border Display, <Border>

<Border>Y</Border>

Border	Bool	Zone border display: "Y" – ON; "N" – OFF.
--------	------	---

#### 4.1.4.1.14.9. Horizontal Zone Width, <HorzBorderSize>

<HorzBorderSize>5</HorzBorderSize>

HorzBorderSize	Real	Horizontal Zone Width.
----------------	------	------------------------

#### 4.1.4.1.14.10. Vertical Zone Width, <VertBorderSize>

<VertBorderSize>5</VertBorderSize>

VertBorderSize	Real	Vertical Zone Width.
----------------	------	----------------------

#### 4.1.4.1.15. Bottom-Right Title Block parameters, <BottomRightBlock>

<BottomRightBlock Width="139.7" Height="26.5937">

Width	Real	Title Block width.
Height	Real	Title Block height.

#### 4.1.4.1.15.1. Title Block name, <Name>

<Name>ANSI (TR)</Name>

Name	Text	Title Block name.
------	------	-------------------

#### 4.1.4.1.15.2. List of Title Block columns, <ColumnWidths>

(4.1.4.1.15.2. List of Column Widths of Title Block, <ColumnWidths>)

<ColumnWidths> – start of the list of columns;  
{...} – column width (Item);  
</ColumnWidths> – end of the list of columns.

#### 4.1.4.1.15.2.1. Column width, <Item>

<Item>12.7</Item>

Item	Real	Column width.
------	------	---------------

#### 4.1.4.1.15.3. List of Title Block rows, <RowHeights>

(4.1.4.1.15.3. List of Row Heights of Title Block, <RowHeights>)

<RowHeights> – start of the list of rows;  
{...} – row height (Item);  
</RowHeights> – end of the list of rows.

#### 4.1.4.1.15.3.1. Row height, <Item>

<Item>6.35</Item>

Item	Real	Row height.
------	------	-------------

#### 4.1.4.1.15.4. List of cell borders in Title Block column, <Cells>

<Cells>  
<Item>  
<Item FieldId="1" TopLine="Y" BottomLine="Y" LeftLine="Y" RightLine="N"/>  
<Item FieldId="2" TopLine="Y" BottomLine="Y" LeftLine="Y" RightLine="Y"/>  
<Item FieldId="0" TopLine="Y" BottomLine="N" LeftLine="Y" RightLine="N"/>  
</Item>  
<Item>  
<Item FieldId="1" TopLine="Y" BottomLine="Y" LeftLine="N" RightLine="N"/>  
<Item FieldId="3" TopLine="Y" BottomLine="Y" LeftLine="Y" RightLine="Y"/>  
<Item FieldId="0" TopLine="Y" BottomLine="N" LeftLine="N" RightLine="N"/>  
</Item>  
</Cells>

<Cells> – start of the list of cell borders in a column;  
{...} – cell borders in a column (Item);  
</Cells> – end of the list of cell borders in a column.

#### 4.1.4.1.15.4.1. List of cell borders in column row, <Item>

<Item>  
<Item FieldId="1" TopLine="Y" BottomLine="Y" LeftLine="Y" RightLine="N"/>  
<Item FieldId="2" TopLine="Y" BottomLine="Y" LeftLine="Y" RightLine="Y"/>  
<Item FieldId="0" TopLine="Y" BottomLine="N" LeftLine="Y" RightLine="N"/>  
</Item>

<Item> – start of the list of cell borders in a column row;  
{...} – cell borders in a column row (Item);  
</Item> – end of the list of cell borders in a column row.

#### 4.1.4.1.15.4.1.1. Cell borders in column row, <Item>

<Item FieldId="1" TopLine="Y" BottomLine="Y" LeftLine="Y" RightLine="N"/>

FieldId	Int	Id of the field to which a cell belongs.
TopLine	Bool	Display of the top border line of the cell: "Y" – enabled; "N" – disabled.
BottomLine	Bool	Display of the bottom border line of the cell: "Y" – enabled; "N" – disabled.
LeftLine	Bool	Display of the left border line of the cell: "Y" – enabled; "N" – disabled.
RightLine	Bool	Display of the right border line of the cell: "Y" – enabled; "N" – disabled.

#### 4.1.4.1.15.5. List of Title Block fields, <Fields>

<Fields> – start of the list of fields;  
{...} – field parameters (Field);  
</Fields> – end of the list of fields.

#### 4.1.4.1.15.5.1. Title Block field parameters, <Field>

<Field Id="1" FontVector="Y" FontSize="8" FontWidth="-2" FontScale="1" FontColor="0" LineSpacing="1.2" TextShow="Text" TextAlign="Center" X1="0" Y1="0" X2="139.7" Y2="-6.35">  
<TextLines>  
<TextLine>REVISION</TextLine>  
</TextLines>  
<FontName>Tahoma</FontName>  
</Field>

#### 4.1.4.1.15.5.1.1. Main parameters of the field

Id	Int	Field identifier (Id).
FontVector	Bool	"Y" – vector font; "N" – True Type font.
FontSize	Int	Font Size.
FontWidth	Real	Line width for vector text: -3 – thin; -2 – normal;

		-1 – bold; >0 – custom, actual value is set here.
FontScale	Real	Horizontal scale for the vector text.
FontColor	Int	Font Color.
LineSpacing	Real	Line spacing for multiline text.
TextShow	Text	Displayed text: "Text"; "Sheet"; "File".
TextAlign	Text	Text alignment: "Center"; "Right"; "Left".
X1	Real	X shift from the top left corner of the Title Block to the top left corner of the field.
Y1	Real	Y shift from the top left corner of the Title Block to the top left corner of the field.
X2	Real	X shift from the top left corner of the Title Block to the bottom right corner of the field.
Y2	Real	Y shift from the top left corner of the Title Block to the bottom right corner of the field.

#### 4.1.4.1.15.5.1.2. List of text lines, <TextLines>

<TextLines> – start of the list of lines;  
 {...} – list of lines (TextLine);  
 </TextLines> – end of the list of lines.

#### 4.1.4.1.15.5.1.2.1. Text line, <TextLine>

TextLine	Text	Text line.
----------	------	------------

#### 4.1.4.1.15.5.1.3. Font Name, <FontName>

FontName	Text	Name of the TrueType font.
----------	------	----------------------------

#### 4.1.4.1.16. Bottom-Left Title Block parameters, <BottomLeftBlock>

Same as 4.1.4.1.15. Bottom-Right Title Block parameters, <BottomRightBlock>.

#### 4.1.4.1.17. Top-Right Title Block parameters, <TopRightBlock>

Same as 4.1.4.1.15. Bottom-Right Title Block parameters, <BottomRightBlock>.

#### 4.1.4.1.18. Top-Left Title Block parameters, <TopLeftBlock>

Same as 4.1.4.1.15. Bottom-Right Title Block parameters, <BottomRightBlock>.

#### 4.1.4.1.19. External Top-Left Title Block parameters, <ExtTopLeftBlock>

Same as 4.1.4.1.15. Bottom-Right Title Block parameters, <BottomRightBlock>.

#### 4.1.4.1.20. External Bottom-Left Title Block parameters, <ExtBottomLeftBlock>

Same as 4.1.4.1.15. Bottom-Right Title Block parameters, <BottomRightBlock>.

### 4.2. General settings, <Settings>

#### 4.2.1. Part Markings, <Markings>

##### 4.2.1.1. Font, <FontVector>

<FontVector>Y</FontVector>

FontVector	Bool	"Y" – vector font; "N" – True Type font.
------------	------	---

##### 4.2.1.2. Font Name, <FontName>

<FontName>Tahoma</FontName>

FontName	Text	Name of the TrueType font.
----------	------	----------------------------

##### 4.2.1.3. Font size, <FontSize>

<FontSize>6</FontSize>

FontSize	Int	Font size.
----------	-----	------------

##### 4.2.1.4. Font Line Width, <FontWidth>

<FontWidth>-2</FontWidth>

FontWidth	Int	Line width for vector text. -3 – thin; -2 – normal; -1 – bold; >0 – custom, actual value is set here.
-----------	-----	---

##### 4.2.1.5. Font Scale, <FontScale>

<FontScale>1</FontScale>

FontScale	Real	Horizontal scale for the vector text.
-----------	------	---------------------------------------

#### 4.2.1.6. Font color used, <UsePartFontColor>

<UsePartFontColor>N</UsePartFontColor>

UsePartFontColor	Bool	"Y" – custom color; "N" – standard color.
------------------	------	--

#### 4.2.1.7. Custom font color, <FontColor>

<FontColor>4194304</FontColor>

FontColor	Int	Custom font color.
-----------	-----	--------------------

#### 4.2.1.8. General markings settings for RefDes, <RefDesGlobal>

<RefDesGlobal Show="Show" ShowPart="Show" Align="Auto"/>

Show	Text	Show: "Show" – show; "Hide" – hide.
ShowPart	Text	Part: "Show" – show; "Hide" – hide.
Align	Text	Align: "Center"; "Top"; "Bottom"; "Left"; "Right"; "Corner"; "Auto".

#### 4.2.1.9. General markings settings for Name, <NameGlobal>

<NameGlobal Show="Show" ShowPart="Show" Align="Auto"/>

Same as 4.2.1.8. General markings settings for RefDes, <RefDesGlobal>

#### 4.2.1.10. General markings settings for Value, <ValueGlobal>

<ValueGlobal Show="Hide" Align="Auto"/>

Show	Text	Show: "Show" – show;
------	------	-------------------------



		"Hide" – hide.
Align	Text	Align: "Center"; "Top"; "Bottom"; "Left"; "Right"; "Corner"; "Auto".

#### 4.2.1.11. General markings settings for Manufacturer, <ManufacturerGlobal>

<ManufacturerGlobal Show="Hide" Align="Auto"/>

Same as 4.2.1.10. General markings settings for Value, <ValueGlobal>.

#### 4.2.1.12. General markings settings for Datasheet, <DatasheetGlobal>

<DatasheetGlobal Show="Hide" Align="Auto"/>

Same as 4.2.1.10. General markings settings for Value, <ValueGlobal>.

#### 4.2.1.13. List of general markings settings for Additional Fields, <AddFieldsGlobal>

<AddFieldsGlobal> – start of the list;  
 {...} – Additional Field settings (AddField);  
 </AddFieldsGlobal> – end of the list.

##### 4.2.1.13.1. General markings settings for Additional Field, <AddField>

<AddField Show="Hide" Align="Auto">  
 <Name>New Field</Name>  
 <Value>newfield</Value>  
 </AddField>

##### 4.2.1.13.1.1. Main general markings settings for Additional Field.

Show	Text	Show: "Show" – show; "Hide" – hide.
Align	Text	Align: "Center"; "Top"; "Bottom"; "Left"; "Right"; "Corner"; "Auto".

#### 4.2.1.13.1.2. Additional Field Name, <Name>

Name	Text	Additional Field Name.
------	------	------------------------

#### 4.2.1.13.1.3. Additional Field Value, <Value>

Value	Text	Additional Field Value.
-------	------	-------------------------

### 4.2.2. Grid settings, <Grid>

#### 4.2.2.1. Grid display, <Visible>

<Visible>Y</Visible>

Visible	Bool	"Y" – show; "N" – hide.
---------	------	----------------------------

#### 4.2.2.2. Snap to grid, <Snap>

<Snap>Y</Snap>

Snap	Bool	"Y" – enabled; "N" – disabled.
------	------	-----------------------------------

#### 4.2.2.3. Grid Size, <Size>

<Size>0.635</Size>

Size	Real	Grid Size.
------	------	------------

### 4.2.3. Origin Settings, <Origin>

#### 4.2.3.1. Origin display, <Visible>

<Visible>Y</Visible>

Visible	Bool	"Y" – show; "N" – hide.
---------	------	----------------------------

#### 4.2.3.2. Origin color, <AxisColor>

<AxisColor>16711680</AxisColor>

AxisColor	Int	Origin color.
-----------	-----	---------------

#### 4.2.3.3. X coordinate of Origin, <X>

<X>10</X>

X	Real	X coordinate of Origin.
---	------	-------------------------

#### 4.2.3.4. Y coordinate of Origin, <Y>

<Y>10</Y>

Y	Real	Y coordinate of Origin.
---	------	-------------------------

#### 4.2.4. Line Width settings, <LineWidth>

##### 4.2.4.1. Line Width for Wire, <Wire>

<Wire>0.1</Wire>

Wire	Real	Line Width for Wire.
------	------	----------------------

##### 4.2.4.2. Node Diameter, <NodeSize>

<NodeSize>1</NodeSize>

NodeSize	Real	Node Diameter.
----------	------	----------------

##### 4.2.4.3. Line Width for Bus, <Bus>

<Bus>0.6667</Bus>

Bus	Real	Line Width for Bus.
-----	------	---------------------

##### 4.2.4.4. Line Width for Table, <Table>

<Table>0.3333</Table>

Table	Real	Line Width for Table.
-------	------	-----------------------

##### 4.2.4.5. Line Width for Titles, <Titles>

<Titles>0.3333</Titles>

Titles	Real	Line Width for Titles.
--------	------	------------------------

## 4.2.5. Bus Connection settings, <BusConnections>

### 4.2.5.1. Show, <Show>

<Show>NetName</Show>

Show	Text	"NetName" – Net Name; "Number" – Net Number in the bus.
------	------	--

### 4.2.5.2. Position, <Position>

<Position>Above</Position>

Position	Text	"Above" – above wires; "Below" – below wires.
----------	------	--

### 4.2.5.3. Font size, <FontSize>

<FontSize>4</FontSize>

FontSize	Int	Font size.
----------	-----	------------

## 4.2.6. Settings of Pin Numbers, <PinNumbers>

<PinNumbers Visible="Y" Font="4"/>

Visible	Text	Visible: "Show" – show; "Hide" – hide.
Font	Int	Font size.

## 4.2.7. Hide Power and Gnd setting, <HidePower>

<HidePower>N</HidePower>

HidePower	Bool	Power and Gnd: "Y" – Hide; "N" – Show.
-----------	------	--

## 4.2.8. Project directory, <ProjectDir>

<ProjectDir>C:\Program Files\DipTrace\Examples</ProjectDir>

ProjectDir	Text	Project directory.
------------	------	--------------------

### 4.3. Project libraries, <ProjectLibs>

#### 4.3.1. Sorted

<ProjectLibs Sorted="N">

Sorted	Bool	Project libraries: "Y" – sorted by name; "N" – not sorted.
--------	------	--

#### 4.3.2. List of folders with project libraries, <Folders>

<Folders> – start of the list of folders;  
{...} – folders with libraries (Folder);  
</Folders> – end of the list of folders.

##### 4.3.2.1. Folder with project libraries, <Folder>

###### 4.3.2.1.1. Full path to the project libraries folder, <Path>

<Path>C:\Program Files\DipTrace\Lib</Path>

Path	Text	Full path to the folder with the project libraries.
------	------	---

###### 4.3.2.1.2. Path to the project libraries folder via environment variable, <Var>

<Var>%standardlibs%</Var>

Var	Text	Path to the project libraries folder via environment variable.
-----	------	--

#### 4.3.3. List of project library files, <Libs>

<Libs> – start of the list of files;  
{...} – library files (Lib);  
</Libs> – end of the list of files.

##### 4.3.3.1. Project library file, <Lib>

###### 4.3.3.1.1. Full path to the project library file, <Path>

<Path>C:\Program Files\DipTrace\Lib\buzzers.lib</Path>

Path	Text	Full path to the project library file.
------	------	--

###### 4.3.3.1.2. Path to project library file via environment variable, <Var>

<Var>%standardlibs%\buzzers.lib</Var>

Var	Text	Path to the project library file via environment variable.
-----	------	--

#### 4.4. Design Cache library, <DesignCache>

<DesignCache Count="229"/>

Count	Int	Number of components at the beginning of the component library (3) that belong to Design Cache library.
-------	-----	---

#### 4.5. List of project Net Classes, <NetClasses>

<NetClasses> – start of the list;  
{...} – project Net Classes (NetClass);  
</NetClasses> – end of the list.

##### 4.5.1. Project Net Class settings, <NetClass>

<NetClass Id="0" UpdateId="0" Type="Normal">  
<Name>Default</Name>  
</NetClass>

##### 4.5.1.1. Main settings of project Net Class

Id	Int	Net Class identifier (Id).
UpdateId	Int	Unique Net Class number for the PCB update. "0" for Default.
Type	Text	Net Class type: "Normal"; "Differential Pair".

##### 4.5.1.2. Net Class name, <Name>

<Name>Default</Name>

Name	Text	Net Class name.
------	------	-----------------

#### 4.6. ERC Settings, <ERC>

<ERC CheckPinType="Y" CheckNotConnected="N" CheckSinglePin="Y" CheckShort="N"  
CheckPinSuperimpose="Y">  
<VCCTemplate>V\*</VCCTemplate>  
<GNDTemplate>GND\*</GNDTemplate>  
</ERC>

##### 4.6.1. Main ERC settings

CheckPinType	Bool	Pin Type check:
--------------	------	-----------------

		"Y" – ON; "N" – OFF.
CheckNotConnected	Bool	Not Connected Pins check: "Y" – ON; "N" – OFF.
CheckSinglePin	Bool	Nets with Single Pin check: "Y" – ON; "N" – OFF.
CheckShort	Bool	Short Circuit check: "Y" – ON; "N" – OFF.
CheckPinSuperimpose	Bool	Pin Superimposing check: "Y" – ON; "N" – OFF.

#### 4.6.2. Template of names of Power Pins, <VCCTemplate>

VCCTemplate	Text	Template of names of Power Pins.
-------------	------	----------------------------------

#### 4.6.3. Template of names of Ground Pins, <GNDTemplate>

GNDTemplate	Text	Template of names of Ground Pins.
-------------	------	-----------------------------------

#### 4.7. List of schematic component parts, <Components>

<Components> – start of the list;  
 {...} – description of schematic component parts (Part);  
 </Components> – end of the list.

#### 4.7.1. Description of schematic component part, <Part>

##### 4.7.1.1. Main parameters of component part

```

<Part Id="0" UpdateId="2221" BlockId="0" ComponentStyle="CompType229"
ComponentPart="0" AllowParts="N" PartNumber="0" Sheet="4" X="83.82" Y="-43.815"
Angle="4.7124" HorzFlip="N" VertFlip="N" ShowNumbers="Common" ShowOrigin="N"
CustomMarkingFont="N" MarkingFontSize="6" MarkingFontAll="N" Group="-1" Selected="N"
Locked="N">
  
```

Id	Int	Identifier (Id) of schematic component part.
UpdateId	Int	Unique component section number (Id) for PCB update.
BlockId	Int	Hierarchy block identifier.
ComponentStyle	Text	"ComponentStyle" in component library (3).

ComponentPart	Int	Part sequence number within the component ComponentStyle” in the component library (3).
AllowParts	Bool	"Enable Parts" in component properties: "Y" – enabled; "N" – disabled.
PartNumber	Int	Part number within component in the source library.
Sheet	Int	Number of the sheet (Id), where the component part is placed (4.1.4.1.1).
X	Real	X coordinate of the component part.
Y	Real	Y coordinate of the component part.
Angle	Real	Component part rotation angle.
HorzFlip	Bool	Component part: "Y" – displayed horizontally; "N" – not displayed horizontally.
VertFlip	Bool	Component part: "Y" – displayed vertically; "N" – not displayed vertically.
ShowNumbers	Text	Pin Numbers: "Common"; "Show"; "Hide".
ShowOrigin	Bool	Part Origin: "Y" – show; "N" – hide.
CustomMarkingFont	Bool	Markings font size: "Y" – custom; "N" – default.
MarkingFontSize	Int	Custom markings font size.
MarkingFontAll	Bool	Apply font set in Schematic for all markings of the components created in the Component Editor. "Y" – apply; "N" – do not apply.
Group	Int	Number of the group (Id), to which a section belongs, see <Groups> section. "-1" – does not belong to any group.
Selected	Bool	"Y" – Selected; "N" – Not Selected.
Locked	Bool	"Y" – Locked ; "N" – Unlocked.

#### 4.7.1.2. Component RefDes, <RefDes>

<RefDes>C1</RefDes>



RefDes	Text	Component RefDes.
--------	------	-------------------

#### 4.7.1.3. Component part RefDes, <PartRefDes>

<PartRefDes>1</PartRefDes>

PartRefDes	Text	Component part RefDes.
------------	------	------------------------

#### 4.7.1.4. Component part name, <PartName>

<PartName>Part 1</PartName>

PartName	Text	Component part name.
----------	------	----------------------

#### 4.7.1.5. Component part Value, <Value>

<Value>(1608)</Value>

Value	Text	Component part value.
-------	------	-----------------------

#### 4.7.1.6. Component Name, <Name>

<Name>CAP\_1608(0603)</Name>

Name	Text	Component Name.
------	------	-----------------

#### 4.7.1.7. Component library file, <LibPath>

##### 4.7.1.7.1. Full path to the component library file, <Path>

<Path>C:\Program Files\DipTrace\Lib\buzzers.lib</Path>

Path	Text	Full path to the component library file.
------	------	--

##### 4.7.1.7.2. Path to the component library file via environment variable, <Var>

<Var>%standardlibs%\buzzers.lib</Var>

Var	Text	Path to the component library file via environment variable.
-----	------	--

#### 4.7.1.8. Individual marking settings for RefDes, <RefDesMarking>

<RefDesMarking Show="Common" ShowPart="Common" Align="Common" Horz="Center" Vert="Center" X="0" Y="0" Angle="0"/>

Show	Text	Show: "Common" – apply general setting (4.2.1.8);
------	------	--

		"Show" – show; "Hide" – hide.
ShowPart	Text	Part: "Common" – use general setting (4.2.1.8); "Show" – show; "Hide" – hide.
Align	Text	Align: "Common" – use general setting (4.2.1.8); "Center"; "Top"; "Bottom"; "Left"; "Right"; "Corner"; "Auto"; "Position".
Horz	Text	Horizontal Anchor Point: "Center"; "Right"; "Left".
Vert	Text	Vertical Anchor Point: "Center"; "Bottom"; "Top".
X	Real	X shift from the section center (for "Position").
Y	Real	Y shift from the section center (for "Position").
Angle	Real	Rotation angle (for "Position").

#### 4.7.1.9. Individual marking settings for Name, <NameMarking>

<NameMarking Show="Common" ShowPart="Common" Align="Common" Horz="Center" Vert="Center" X="0" Y="0" Angle="0"/>

Same as 4.7.1.8. Individual marking settings for RefDes, <RefDesMarking>.

#### 4.7.1.10. Individual marking settings for Value, <ValueMarking>

<ValueMarking Show="Common" Align="Common" Horz="Center" Vert="Center" X="0" Y="0" Angle="0"/>

Show	Text	Show: "Common" – use general setting (4.2.1.8); "Show" – show; "Hide" – hide.
Align	Text	Align: "Common" – use general setting (4.2.1.8);

		"Center"; "Top"; "Bottom"; "Left"; "Right"; "Corner"; "Auto"; "Position".
Horz	Text	Horizontal Anchor Point: "Center"; "Right"; "Left".
Vert	Text	Vertical Anchor Point: "Center"; "Bottom"; "Top".
X	Real	X shift from the section center (for "Position").
Y	Real	Y shift from the section center (for "Position").
Angle	Real	Rotation angle (for "Position").

#### 4.7.1.11. Individual marking settings for Manufacturer, <ManufacturerMarking>

<ManufacturerMarking Show="Common" Align="Common" Horz="Center" Vert="Center" X="0" Y="0" Angle="0"/>

Same as 4.7.1.10. Individual marking settings for Value, <ValueMarking>.

#### 4.7.1.12. Individual marking settings for Datasheet, <DatasheetMarking>

<DatasheetMarking Show="Common" Align="Common" Horz="Center" Vert="Center" X="0" Y="0" Angle="0"/>

Same as 4.7.1.10. Individual marking settings for Value, <ValueMarking>.

#### 4.7.1.13. List of Additional Fields, <AddFields>

<AddFields> – start of the list;  
{...} – description of Additional Fields (AddField);  
</AddFields> – end of the list.

##### 4.7.1.13.1. Description of Additional Field and individual settings of its marking, <AddField>

<AddField Type="Text" Show="Common" Align="Common" Horz="Center" Vert="Center" X="0" Y="0" Angle="0">  
<Name>Description</Name>  
<Text>Dual, 30-V, 700-kHz operational amplifier</Text>  
</AddField>

#### 4.7.1.13.1.1. Main parameters of Additional Field

Type	Text	Additional field value type: "Text"; "Link".
Show	Text	Show: "Common" – use general setting (4.2.1.8); "Show" – show; "Hide" – hide.
Align	Text	Align: "Common" – use general setting (4.2.1.8); "Center"; "Top"; "Bottom"; "Left"; "Right"; "Corner"; "Auto"; "Position".
Horz	Text	Horizontal Anchor Point: "Center"; "Right"; "Left".
Vert	Text	Vertical Anchor Point: "Center"; "Bottom"; "Top".
X	Real	X shift from the section center (for "Position").
Y	Real	Y shift from the section center (for "Position").
Angle	Real	Rotation angle (for "Position").

#### 4.7.1.13.1.2. Additional Field Name, <Name>

Name	Text	Additional Field Name.
------	------	------------------------

#### 4.7.1.13.1.3. Additional Field Value, <Text>

Text	Text	Additional Field Value.
------	------	-------------------------

#### 4.7.1.14. List of part pins, <Pins>

<Pins> – start of the list;

{...} – description of the part pins (Pin);  
 </Pins> – end of the list.

#### 4.7.1.14.1. Description of the part pin, <Pin>

<Pin NetId="-1" NotConnected="N"/>

NetId	Int	Identifier of the net (Id) connected to the pin in the list of nets. "-1" – not connected to any net.
NotConnected	Bool	"Not Connected": "Y" – enabled; "N" – disabled.

#### 4.7.1.15. Category assigned to component <Category>

##### 4.7.1.15.1. Sequence number of the category in the list, <Index>

<Category Index="0">

Index	Int	The number of the category assigned to component in the list.
-------	-----	---

##### 4.7.1.15.2. Name of the category assigned to component, <Name>

<Name>Connectors</Name>

Name	Text	Name of the category assigned to the component.
------	------	---

##### 4.7.1.15.3. List of Category types and subtypes assigned to component, <CategoryTypes>

<CategoryTypes> – start of the list of types and subtypes;  
 {...} – list of types and subtypes (CategoryType);  
 </CategoryTypes> – end of the list of types and subtypes.

##### 4.7.1.15.3.1. Type and subtype description, <CategoryType>

###### 4.7.1.15.3.1.1. Type name and number, <Type>

<Type Index="2">Circular</Type>

Index	Int	Number of the type in the list of the current category.
	Text	Type name.

###### 4.7.1.15.3.1.2. Subtype name and number, <SubType>

<SubType Index="2">Power DIN</SubType>

Index	Int	Subtype number in the list of the current type.
	Text	Subtype name.

#### 4.8. List of the schematic nets, <Nets>

<Nets> – start of the list;  
 {...} – schematic nets description (Net);  
 </Nets> – end of the list.

##### 4.8.1. Description of schematic net, <Net>

###### 4.8.1.1. Main parameters of net

<Net Id="0" NetClass="0" UniteByName="N" ConnectPinByName="N" Global="N"  
 CustomColor="Y" WireColor="0" Locked="N" Enabled="Y">

Id	Int	Net identifier (Id).
NetClass	Int	Net netclass identifier (Id) in the list of netclasses (4.5).
UniteByName	Bool	"Connect Nets by Name": "Y" – enabled; "N" – disabled.
ConnectPinByName	Bool	"Connect Net to Pins by Name": "Y" – enabled; "N" – disabled.
Global		"Global Net for Hierarchy": "Y" – enabled; "N" – disabled.
CustomColor	Bool	Wire Color: "Y" – Custom; "N" – Standard.
WireColor	Int	Custom wire color.
Locked	Bool	"Y" – Locked ; "N" – Unlocked.
Enabled	Bool	Net: "Y" – exists in the schematic; "N" – removed from the schematic.

###### 4.8.1.2. Net name, <Name>

<Name>AP-WAKE-BT</Name>

Name	Text	Net name.
------	------	-----------

### 4.8.1.3. List of net pins, <Pins>

<Pins> – start of the list;  
 {...} – net pins (Item);  
 </Pins> – end of the list.

#### 4.8.1.3.1. Net pin, <Item>

<Item Part="596" Pin="0"/>

Part	Int	Part identifier (Id) in the list of components (4.7.1.1.).
Pin	Int	Pin number in the part pins list (4.7.1.14.).

### 4.8.1.4. List of wires, <Wires>

<Wires> – start of the list;  
 {...} – net wires (Wire);  
 </Wires> – end of the list.

#### 4.8.1.4.1. Net wire, <Wire>

<Wire Id="0" Sheet="1" Connected1="Pin" Bus1="-1" Object1="709" SubObject1="0"  
 Connected2="Pin" Bus2="-1" Object2="347" SubObject2="0" HiddenPower="N" CanUnhide="N"  
 Arrows="None" Group="-1" Selected="N">

##### 4.8.1.4.1.1. Main parameters of wire

Id	Int	Wire identifier (Id) in the net.
Sheet	Int	Number of sheet (Id), where the wire is placed (4.1.4.1.1). "-1" – if "Hide Wire" is enabled.
Connected1	Int	Type of the first connected object: "Pin"; "Wire"; "Bus"; "Free".
Bus1	Int	Id of the connected bus in the list of buses (4.10), if Connected="Bus".
Object1	Int	Id of connected part in the list of schematic components (4.7), if Connected="Pin"; Wire Id in the list of wires (4.8.1.4) of the same net, if Connected="Wire"; Bus wire Id in the list of bus wires (4.10.1.3), if Connected="Bus".
SubObject1	Int	Pin sequence number in the list of part pins (4.7.1.14), if Connected="Pin"; Sequence number of point in the list of net wire points

		(4.8.1.4.1.2) if Connected="Wire"; Sequence number of point in the list of bus points (4.10.1.3.1.2) if Connected="Bus".
Connected2	Int	Type of the second object connected: "Pin"; "Wire"; "Bus"; "Free".
Bus2	Int	Id of the connected bus in the list of buses (4.10), if Connected="Bus".
Object2	Int	Id of connected part in the list of schematic components (4.7), if Connected="Pin"; Wire Id in the list of wires (4.8.1.4) of the same net, if Connected="Wire"; Bus wire Id in the list of bus wires (4.10.1.3), if Connected="Bus".
SubObject2	Int	Sequence number of pin in the list of part pins (4.7.1.14), if Connected="Pin"; Sequence number of point in the list of net wire points (4.8.1.4.1.2), if Connected="Wire"; Sequence number of point in the list of bus points (4.10.1.3.1.2), if Connected="Bus".
HiddenPower	Bool	"Y" – wire is hidden if "Hide Power and GND" is enabled; "N" – in all other cases.
CanUnhide	Bool	If "Hide Wire" is enabled: "Y" – wire can be shown again; "N" – wire cannot be shown again.
Arrows	Text	Direction Arrows: "None"; "Forward"; "Backward".
Group	Int	Number of the group (Id), to which a Wire belongs, see <Groups> section. "-1" – does not belong to any group.
Selected	Bool	"Y" – Selected; "N" – Not Selected.

#### 4.8.1.4.1.2. List of points connected by wire, <Points>

<Points> – start of the list;  
{...} – connected points (Point);  
</Points> – end of the list.

The points in the list are in the order they are connected by a wire.



#### 4.8.1.4.1.3. Points connected by wire, <Point>

<Point X="-1.27" Y="-13.97" Dir="-1"/>

X	Real	X coordinate of the point.
Y	Real	Y coordinate of the point.
Dir	Int	Segment orientation: "-1" – not set; "0" – horizontally; "1" – vertically. The parameter of the second point of each segment indicates its orientation. The parameter for the very first point in the list is ignored.

#### 4.9. List of differential pair of schematic, <DifferentialPairs>

<DifferentialPairs> – start of the list;  
{...} – differential pair description (DifferentialPair);  
</DifferentialPairs> – end of the list.

##### 4.9.1. Differential pair description, <DifferentialPair>

###### 4.9.1.1. Main parameters of differential pair

<DifferentialPair Enabled="Y" PosNet="0" NegNet="1" NetClass="1" CustomColor="Y" WireColor="65535">

Enabled	Bool	Differential pair: "Y" – exists in the schematic "N" – removed from the schematic.
PosNet	Int	Positive net of the differential pair, its Id in the list of nets of the schematic (4.8).
NegNet	Int	Negative net of the differential pair, its Id in the list of nets of the schematic (4.8).
NetClass	Int	NetClass identifier (Id) in the list of netclasses (4.5).
CustomColor	Bool	Diff Pair Color: "Y" – Custom; "N" – Standard.
WireColor	Int	Custom Diff Pair color.

###### 4.9.1.2. Differential Pair name, <Name>

<Name>RX</Name>

Name	Text	Differential pair name.
------	------	-------------------------

## 4.10. List of buses of the schematic, <Buses>

<Buses> – start of the list;  
{...} – schematic buses (Bus);  
</Buses> – end of the list.

### 4.10.1. Schematic bus description, <Bus>

#### 4.10.1.1. Main bus parameters

<Bus Id="0" Enabled="Y" Locked="N">

Id	Int	Bus identifier (Id) in schematic.
Enabled	Bool	Bus: "Y" – exists in the schematic; "N" – removed from the schematic.
Locked	Bool	"Y" – Locked ; "N" – Unlocked.

#### 4.10.1.2. List of bus nets, <Nets>

<Nets> – start of the list;  
{...} – bus nets (Net);  
</Nets> – end of the list.

##### 4.10.1.2.1. Bus net description, <Net>

<Net NetId="2" ConnectionNumber="1"/>

NetId	Int	Identifier of the bus net (Id) in the list of schematic nets (4.8).
ConnectionNumber	Int	Net Number in the bus.

#### 4.10.1.3. List of bus wires, <Wires>

<Wires> – start of the list;  
{...} – bus wires (Wire);  
</Wires> – end of the list.

##### 4.10.1.3.1. Bus wire, <Wire>

<Wire Id="1" Sheet="0" Connected1="Free" Bus1="-1" Object1="-1" SubObject1="-1"  
Connected2="Bus Connector" Bus2="-1" Object2="1" SubObject2="-1" Group="-1"  
Selected="Y">

###### 4.10.1.3.1.1. Main parameters of the bus wire

Id	Int	Wire identifier (Id) in the bus.
----	-----	----------------------------------

Sheet	Int	Number of sheet (Id), where the wire is placed (4.1.4.1.1).
Connected1		Type of the first connected object: "Bus Wire"; "Bus Connector"; "Free".
Bus1	Int	Bus Id, if Connected ="Bus Wire".
Object1	Int	Bus wire Id in the list of wires (4.10.1.3) of the same bus, if Connected ="Bus Wire"; Bus Connector Id in the list of Bus Connectors (4.11), if Connected ="Bus Connector".
SubObject1	Int	Sequence number of point in the list of bus wire points (4.10.1.3.1.2), if Connected ="Bus Wire".
Connected2	Int	Type of the first connected object: "Bus Wire"; "Bus Connector"; "Free".
Bus2	Int	Bus Id, if Connected ="Bus Wire".
Object2	Int	Bus wire Id in the list of wires (4.10.1.3) of the same bus, if Connected ="Bus Wire"; Bus Connector Id in the list of Bus Connectors (4.11), if Connected ="Bus Connector".
SubObject2	Int	Sequence number of point in the list of bus wire points (4.10.1.3.1.2), if Connected ="Bus Wire".
Group	Int	Number of the group (Id), to which a Wire belongs, see <Groups> section. "-1" – does not belong to any group.
Selected	Bool	"Y" – Selected; "N" – Not Selected.

#### 4.10.1.3.1.2. List of points connected by wire, <Points>

<Points> – start of the list;  
 {...} – connected points (Point);  
 </Points> – end of the list.

The points in the list are in the order they are connected by a wire.

#### 4.10.1.3.1.3. Points connected by wire, <Point>

<Point X="54.61" Y="-19.05" Dir="1"/>

X	Real	X coordinate of the point.
Y	Real	Y coordinate of the point.
Dir	Int	Segment orientation:

		"-1" – not set; "0" – horizontally; "1" – vertically. The parameter of the second point of each segment indicates its orientation. The parameter of the first point in the list is ignored.
--	--	--

#### 4.11. List of schematic Bus Connectors, <BusConnectors>

<BusConnectors> – start of the list;  
 {...} – schematic Bus Connectors (BusConnector);  
 </BusConnectors> – end of the list.

##### 4.11.1. Description of Bus Connector, <BusConnector>

###### 4.11.1.1. Main parameters of Bus Connector

<BusConnector Id="0" Sheet="0" X="54.61" Y="12.7" Enabled="Y" Connected="Y" Group="-1" Selected="N" Locked="N">

Id	Int	Bus Connector identifier (Id) in the schematic.
Sheet	Int	Number of the sheet (Id), where Bus Connector is placed (4.1.4.1.1).
X	Real	X coordinate.
Y	Real	Y coordinate.
Enabled	Bool	Bus Connector: "Y" – exists in the schematic; "N" – removed from the schematic.
Connected	Bool	Bus Connector: "Y" – connected to bus; "N" – not connected to bus.
Group	Int	Number of the group (Id), to which a Bus Connector belongs, see <Groups> section. "-1" – does not belong to any group.
Selected	Bool	"Y" – Selected; "N" – Not Selected.
Locked	Bool	"Y" – Locked ; "N" – Unlocked.

###### 4.11.1.2. Bus Connector name, <Name>

<Name>Port 0</Name>

Name	Text	Bus Connector name.
------	------	---------------------

## 4.12. List of shapes, <Shapes>

<Shapes> – start of the list;  
 {...} – shape description (Shape);  
 </Shapes> – end of the list.

### 4.12.1. Shape description, <Shape>

#### 4.12.1.1. Main parameters of shape

```
<Shape Enabled="Y" Id="0" Type="Rectangle" Sheet="0" LineWidth="0.3333" Color="9079434"
NetId="-1" BusId="-1" Angle="0" PictureWidth="0.3333" PictureHeight="0.3333"
PictureProportions="Y" HorzAlign="Left" VertAlign="Top" PictureTransparent="0"
TextAlign="Left" FontVector="Y" FontSize="10" FontWidth="-2" FontScale="1"
FontColor="12632256" LineSpacing="1.2" Group="-1" Selected="N" Locked="N">
```

Enabled	Bool	Shape: "Y" – exists in the schematic; "N" – removed from the schematic.
Id	Int	Shape identifier (Id) in the schematic.
Type	Int	Shape type: "Line"; "Arc"; "Rectangle"; "FillRect"; "Obround"; "FillObround"; "Polyline"; "Polygon"; "Text".
Sheet	Int	Number of the sheet (Id), where the shape is placed (4.1.4.1.1).
LineWidth	Real	Shape line width (not filled and non-text objects only).
Color	Int	Shape color.
NetId	Int	Identifier of the net (Id) in the list of nets (4.8), to which a text is bound. "-1" – not bound to net.
BusId	Int	Bus identifier (Id) in the list of buses (4.10), to which a text is bound. "-1" – not bound to bus.
Angle	Real	Angle of the text and picture in radians, counterclockwise.
PictureWidth	Real	Picture Width.
PictureHeight	Real	Picture Height.
PictureProportions		Picture Proportions: "Y" – constrain; "N" – do not constrain.

HorzAlign	Text	Horizontal text and picture anchor point: "Center"; "Right"; "Left".
VertAlign	Text	Vertical text and picture anchor point: "Center"; "Bottom"; "Top".
PictureTransparent	Real	Picture Transparency percentage.
TextAlign	Text	Text alignment: "Center"; "Right"; "Left".
FontVector	Bool	"Y" – vector font; "N" – True Type font.
FontSize	Int	Font size for text object.
FontWidth	Real	Line width for vector text: -3 – thin; -2 – normal; -1 – bold; >0 – custom, actual value is set here.
FontScale	Real	Horizontal scale for the vector text.
FontColor	Int	Font color of text object.
LineSpacing	Real	Line spacing for multiline text.
Group	Int	Number of the group (Id), to which the shape belongs, see <Groups> section. "-1" – does not belong to any group.
Selected	Bool	"Y" – Selected; "N" – Not Selected.
Locked	Bool	Change lock: "Y" – ON, changes locked; "N" – OFF, changes allowed.

#### 4.12.1.2. List of shape points, <Points>

<Points> – start of the list of shape points;  
{...} – list of shape points (Point);  
</Points> – end of the list of shape points.

##### 4.12.1.2.1. Shape point coordinates, <Point>

<Point X="86.995" Y="21.59"/>

X	Real	X coordinate.
---	------	---------------

Y	Real	Y coordinate.
---	------	---------------

#### 4.12.1.3. Font Name, <FontName>

<FontName>Tahoma</FontName>

FontName	Text	Name of the TrueType font.
----------	------	----------------------------

#### 4.12.1.4. List of lines of "Text" shape, <TextLines>

<TextLines> – start of the list of lines;  
 {...} – list of lines (TextLine);  
 </TextLines> – end of the list of lines.

##### 4.12.1.4.1. Lines of "Text" shape, <TextLine>

<TextLine>Power</TextLine>

TextLine	Text	Text line.
----------	------	------------

#### 4.12.1.5. Picture file, <PictureFile>

<PictureFile>  
 <Path>D:\Work\Tests\Pict.bmp</Path>  
 <Var>%pictures%\Pict.bmp</Var>  
 </PictureFile>

##### 4.12.1.5.1. Full path to the picture file, <Path>

Path	Text	Full path to the picture file.
------	------	--------------------------------

##### 4.12.1.5.2. Path to the picture file via environment variable, <Var>

Var	Text	Path to the picture file via environment variable.
-----	------	--

#### 4.13. List of tables, <Tables>

<Tables> – start of the list;  
 {...} – description of tables (Table);  
 </Tables> – end of the list.

##### 4.13.1. Table description, <Table>

###### 4.13.1.1. Main parameters of table

<Table Enabled="Y" Id="0" HideBorder="N" Sheet="0" X1="72.39" Y1="-21.59" X2="118.11"

Y2="-29.718" Orientation="0" CellWidth="15.24" CellHeight="4.064" TextAlign="Left"  
 FontVector="Y" FontSize="9" FontWidth="-2" FontScale="1" FontColor="0" LineSpacing="1.2"  
 Group="-1" Selected="N" Locked="N">

Enabled	Bool	Table: "Y" – exists in the schematic; "N" – removed from the schematic.
Id	Int	Table identifier (Id) in the schematic.
HideBorder		
Sheet	Int	Number of the sheet (Id), where table is placed (4.1.4.1.1).
X1	Real	X coordinate of the top left corner of the table.
Y1	Real	Y coordinate of the top left corner of the table.
X2	Real	X coordinate of the bottom right corner of the table.
Y2	Real	Y coordinate of the bottom right corner of the table.
Orientation	Text	Table rotation angle, digrees: "0"; "90"; "180"; "270".
CellWidth	Real	Cell width.
CellHeight		Cell height.
TextAlign	Text	Text alignment: "Center"; "Right"; "Left".
FontVector	Bool	"Y" – vector font; "N" – True Type font.
FontSize	Int	Font Size.
FontWidth	Real	Line width for vector text: -3 – thin; -2 – normal; -1 – bold; >0 – custom, actual value is set here.
FontScale	Real	Horizontal scale for the vector text.
FontColor	Int	Font Color.
LineSpacing	Real	Line spacing for multiline text.
Group	Int	Number of group (Id), to which the table belongs, see <Groups> section. "-1" – does not belong to any group.
Selected	Bool	"Y" – Selected; "N" – Not Selected.



Locked	Bool	Change lock: "Y" – ON, changes locked; "N" – OFF, changes allowed.
--------	------	--

#### 4.13.1.2. Font Name, <FontName>

<FontName>Tahoma</FontName>

FontName	Text	Name of the TrueType font.
----------	------	----------------------------

#### 4.13.1.3. Table name, <Name>

<Name>Table</Name>

Name	Text	Table name.
------	------	-------------

#### 4.13.1.4. List of width values of table columns, <ColumnWidths>

<ColumnWidths> – start of the list of the width values of the columns;  
 {...} – column width (Item);  
 </ColumnWidths> – end of the list of the width values of the columns.

##### 4.13.1.4.1. Column width, <Item>

<Item>12.7</Item>

Item	Real	Column width.
------	------	---------------

#### 4.13.1.5. List of height values of table rows, <RowHeights>

<RowHeights> – start of the list of the height values of the rows;  
 {...} – row height (Item);  
 </RowHeights> – end of the list of the height values of the rows.

##### 4.13.1.5.1. Row height, <Item>

<Item>6.35</Item>

Item	Real	Row height.
------	------	-------------

#### 4.13.1.6. List of table columns, <Cells>

<Cells> – start of the list of table columns;  
 {...} – table columns (Cell);  
 </Cells> – end of the list of table columns.

#### 4.13.1.6.1. List of rows in the table column, <Cell>

<Cell> – start of the list of rows in the column;  
{...} – table rows (Cell);  
</Cell> – end of the list of rows in the column.

#### 4.13.1.6.1.1. Cell parameters in the column row of table, <Cell>

##### 4.13.1.6.1.1.1. Main parameters of cell

<Cell X1="72.39" Y1="-21.59" X2="87.63" Y2="-25.654" TextAlign="Left" FontVector="Y" FontSize="9" FontWidth="-2" FontScale="1" FontColor="0" LineSpacing="1.2">

X1	Real	X coordinate of the top left corner of the cell.
Y1	Real	Y coordinate of the top left corner of the cell.
X2	Real	X coordinate of the bottom right corner of the cell.
Y2	Real	Y coordinate of the bottom right corner of the cell.
TextAlign	Text	Text alignment: "Center"; "Right"; "Left".
FontVector	Bool	"Y" – vector font; "N" – True Type font.
FontSize	Int	Font Size.
FontWidth	Real	Line width for vector text: -3 – thin; -2 – normal; -1 – bold; >0 – custom, actual value is set here.
FontScale	Real	Horizontal scale for the vector text.
FontColor	Int	Font Color.
LineSpacing	Real	Line spacing for multiline text.

##### 4.13.1.6.1.1.2. Font Name, <FontName>

<FontName>Tahoma</FontName>

FontName	Text	Name of the TrueType font.
----------	------	----------------------------

##### 4.13.1.6.1.1.3. List of lines of text in cell, <TextLines>

<TextLines> – start of the list of lines;  
{...} – list of lines (TextLine);  
</TextLines> – end of the list of lines.

#### 4.13.1.6.1.1.3.1. Lines of text in cell, <TextLine>

<TextLine>Voltage</TextLine>

TextLine	Text	Text line.
----------	------	------------

#### 4.14. Simulator parameters, <Simulator>

##### 4.14.1. General parameters of simulator

<Simulator Type="Transient" GndNetId="7">

Type	Text	Simulator type: "None"; "Small-Signal AC"; "DC Transfer Function"; "Noise"; "Transient".
GndNetId	Int	Identifier of the net (Id) in the list of schematic nets (4.8), selected as "GND Net".

##### 4.14.2. List of selected signals, <Signals>

<Signals> – start of the list of signals;  
{...} – list of signals (Signal);  
</Signals> – end of the list of signals.

##### 4.14.2.1. Description of the selected signal, <Signal>

###### 4.14.2.1.1. Main parameters of the signal

<Signal Type="Current" Id="9" Plotted="Y" Visible="Y" Color="3390463">

Type	Text	Signal type: "Current"; "Voltage".
Id	Int	Signal identifier (Id).
Plotted	Bool	The signal in the display list is: "Y" – selected; "N" – not selected.
Visible	Bool	The signal in the graph: "Y" – shown; "N" – not shown.
Color	Int	Signal color in the graph.

#### 4.14.2.1.2. Signal name, <DisplayName>

<DisplayName>I (LED1)</DisplayName>

DisplayName	Text	The name of signal displayed in the list of signals.
-------------	------	--

#### 4.14.3. "Small-Signal AC" settings, <SmallSignalAC>

##### 4.14.3.1. Variation, <Variation>

<Variation>decade</Variation>

Variation	Text	Variation: "decade"; "octave"; "linear".
-----------	------	---

##### 4.14.3.2. Number of points, <NumberOfPoints>

<NumberOfPoints>10</NumberOfPoints>

NumberOfPoints	Int	Number of points.
----------------	-----	-------------------

##### 4.14.3.3. Start Frequency, <StartFrequency>

<StartFrequency>0,01</StartFrequency>

StartFrequency	Real	Start Frequency.
----------------	------	------------------

##### 4.14.3.4. Stop Frequency, <StopFrequency>

<StopFrequency>10</StopFrequency>

StopFrequency	Real	Stop Frequency.
---------------	------	-----------------

#### 4.14.4. "DC Transfer Function" settings, <DCTransferFunc>

##### 4.14.4.1. Source Type, <SourceType>

<SourceType>Voltage</SourceType>

SourceType	Text	Source Type: "Voltage"; "Current"; "Resistance"; "Temperature".
------------	------	---

#### 4.14.4.2. Source RefDes, <SourceRefDes>

<SourceRefDes>B1</SourceRefDes>

SourceRefDes	Text	Source RefDes.
--------------	------	----------------

#### 4.14.4.3. Start Value, <StartValue>

<StartValue>0</StartValue>

StartValue	Text	Start Value.
------------	------	--------------

#### 4.14.4.4. Step, <Step>

<Step>0,5</Step>

Step	Text	Step.
------	------	-------

#### 4.14.4.5. Stop Value, <StopValue>

<StopValue>90</StopValue>

StopValue	Text	Stop Value.
-----------	------	-------------

#### 4.14.4.6. Second Source, <SecondSource>

<SecondSource>+</SecondSource>

SecondSource	Bool	Second Source: "+" – Enabled; "-" – Disabled.
--------------	------	---

#### 4.14.4.7. Second Source Type, <SecondSourceType>

<SecondSourceType>Voltage</SecondSourceType>

SecondSourceType	Text	Second Source Type: "Voltage"; "Current"; "Resistance"; "Temperature".
------------------	------	--

#### 4.14.4.8. Second Source RefDes, <SecondSourceRefDes>

<SecondSourceRefDes>B1</SecondSourceRefDes>

SecondSourceRefDes	Text	Second source RefDes.
--------------------	------	-----------------------

#### 4.14.4.9. Second Source Start Value, <SecondStartValue>

<SecondStartValue>0</SecondStartValue>

SecondStartValue	Text	Second source start value.
------------------	------	----------------------------

#### 4.14.4.10. Second Source Step, <SecondStep>

<SecondStep>4</SecondStep>

SecondStep	Text	Second source step.
------------	------	---------------------

#### 4.14.4.11. Second Source Stop Value, <SecondStopValue>

<SecondStopValue>20</SecondStopValue>

SecondStopValue	Text	Second source stop value.
-----------------	------	---------------------------

#### 4.14.5. "Transient" settings of the simulator, <Transient>

##### 4.14.5.1. Start Time, <StartTime>

<StartTime>0</StartTime>

StartTime	Text	Start time.
-----------	------	-------------

##### 4.14.5.2. Step, <Step>

<Step>10m</Step>

Step	Text	Step.
------	------	-------

##### 4.14.5.3. Stop Time, <StopTime>

<StopTime>2</StopTime>

StopTime	Text	Stop Time.
----------	------	------------

#### 4.14.6. "Noise" settings of the simulator, <Noise>

##### 4.14.6.1. Output Net, <OutputNet>

<OutputNet>Net 0</OutputNet>

OutputNet	Text	Selected output net.
-----------	------	----------------------

#### 4.14.6.2. Reference Net, <ReferenceNet>

<ReferenceNet>GND Net</ReferenceNet>

ReferenceNet	Text	Selected reference net.
--------------	------	-------------------------

#### 4.14.6.3. Source, <Source>

<Source>B1</Source>

Source	Text	Source RefDes.
--------	------	----------------

#### 4.14.6.4. Variation, <Variation>

<Variation>decade</Variation>

Variation	Text	Variation: "decade"; "octave"; "linear".
-----------	------	---

#### 4.14.6.5. Number of Points, <NumberOfPoints>

<NumberOfPoints>10</NumberOfPoints>

NumberOfPoints	Int	Number of points.
----------------	-----	-------------------

#### 4.14.6.6. Start Frequency, <StartFrequency>

<StartFrequency>1k</StartFrequency>

StartFrequency	Text	Start frequency.
----------------	------	------------------

#### 4.14.6.7. Stop Frequency, <StopFrequency>

<StopFrequency>100Meg</StopFrequency>

StopFrequency	Text	Stop frequency.
---------------	------	-----------------

#### 4.14.6.8. Points per Summary, <PointsPerSummary>

<PointsPerSummary>1</PointsPerSummary>

PointsPerSummary	Int	Points per summary.
------------------	-----	---------------------

#### 4.14.7. Gnd Net Name, <GndNetName>

<GndNetName>GND</GndNetName>

GndNetName	Text	Gnd net name.
------------	------	---------------

#### 4.15. List of groups, <Groups>

- <Groups> – start of the list of groups;  
 {...} – group descriptions (Group);  
 </Groups> – end of the list of groups.

##### 4.15.1. Group description, <Group>

<Group Id="0" Enabled="Y" Selected="N"/>

Id	Int	Identifier (Id), group number.
Enabled	Bool	Grouping: "Y" – exists in the schematic; "N" – removed from the schematic.
Selected	Bool	"Y" – Selected; "N" – Not Selected.