# Descriptions of VBA\_FUNC

* for notes of standard VBA function see <https://docs.microsoft.com>
* numbers typing without thousands separators
* decimal numbers typing with decimal dot (4752.4)
* decimal variables - for conversion variables(decimal String Numbers) use function Num - Num(ST\_Gfe) or Num(43212,487) --> 43212.487

- all numbers in XML file is without thousand separator and with decimal comma (724158,42)

If VBA\_FUNC\_ResultString contain string "AddChr(ASCII\_Number)", replace this string by ASCII character with specific number (ASCII\_Number)

For specific cases, the standard item separator ";" can be replaced by a special separator "˽" – [VBA\_FUNC(IIf˽Trim("TS\_USecGes")=""˽TS\_USec˽TS\_USecGes)]  
In cases where it is assumed that will be inserted a value (as variable) that will contain a standard separator ";", for example TS\_USecGes = "2x 115V; 24V".

**[VBA\_FUNC(Left;String;Lenght)]** - Returns a Variant (String) containing a specified number of characters from the left side of a string. Lenght is integer.

**[VBA\_FUNC(Right;String;Lenght)]** - Returns a Variant (String) containing a specified number of characters from the right side of a string. Lenght is integer.

**[VBA\_FUNC(Mid;String;Start[;Lenght])]** - Returns a Variant (String) containing a specified number of characters from the right side of a string. Start and Lenght are integers.

**[VBA\_FUNC(IIf;Expression;truepart[;falsepart;Eval\_res])]** - Returns one of two parts, depending on the evaluation of an expression, FalsePart is optional and if empty, returns "" for false result; if Eval\_res is set(is written "Eval\_res"), TruePart or FalsePart can also be an expression and will be evaluate - když není schopno vyhodnotit TruePart nebo FalsePart (vznikne chyba při vahodnocení), vrací danou část nezměněnou

**Num(StringNumber)** - used in Expression, additional function for converting StringNumber to Number, basically for transform decimal numbers with decimal comma separators "," to decimal dot separators "." - transform "Num(xxxx.x)" --> "xxxx.x"

**[VBA\_FUNC(Format;String;ResultMask as String)]** - Returns a Variant (String) containing an String\_expression formatted according to instructions contained in a ResultMask

**[VBA\_FUNC(FormatNum;Number;NumDigitsAfterDecimal[;optional Up or Down])]** - Returns a Variant (String) containing an Number rounded to digits contained in a NumDigitsAfterDecimal (negativ number of NumDigitsAfterDecimal represented, that the resulting number rounded for place to the left of decimal point); optional is it possible use round Up or Down (is written "Up" or "Down")

**Num(StringNumber)** - used in Number, additional function for converting StringNumber to Number, basically for transform decimal numbers with decimal comma separators "," to decimal dot separators "." - transform "Num(xxxx.x)" --> "xxxx.x"

**[VBA\_FUNC(FormatStr;String[;String;String;...])]** - Returns a String, input Strings will be separateded by line separator (each String will be on the next line)

- final string will be in one paragraph and separated by line

- when the String itself contain the separator ";" then the function splits the input string and all ";" will be replaced by CrLf (line separator)

**[VBA\_FUNC(Font;Font\_Name;Size;String[;optional add\_function])]** - Returns a Variant (String) with specific type and size of text font

- for additional changes use optional add\_function (e.g. SortSymbols, ...)

additional\_function: **SortSymbols(TempClass)** - sort certificate symbols and add temperature class to UL symbol if needed (or if exist)

**IIf(Expression)** - evaluation of an expression and for font modification is used the result of expression, String in function do not have any function, but can not be empty

**[VBA\_FUNC(Evaluate;Mathematical\_Expression as String[;NumDigitsAfterDecimal])]** - Returns a Variant (String) containing a matematical evaluation of string Matematical\_Expression and round for NumDigitsAfterDecimal digits (negativ number of NumDigitsAfterDecimal represented, that the resulting number rounded for place to the left of decimal point)

**Num(StringNumber)** - used in Mathematical\_Expression, additional function for converting StringNumber to Number, basically for transform decimal numbers with decimal comma separators "," to decimal dot separators "." - transform "Num(xxxx.x)" --> "xxxx.x"

**[VBA\_FUNC(RegExp;InputString;Pattern[;ReplaceString or PassString; FalseString])]** - If function contain only InputString and Pattern, return a String containing the first occurrance of the good result of the regular expression

- if function contain ReplaceString, all good results will be replaced by the ReplaceString and

- if function contains all parameters with Pass and FalseStrings, then RegularExpression tests if the InputString contain a Pattern and return a PassString or FailString

**[VBA\_FUNC(DeleteRow;String[;optional Show[;optional TestString;Yes or Not[;optional PrintPageCond]]])]** - If String is empty, then delete row, else ""

- if is set optional parameter Show (is written "Show"), String will be showing; parameter Show can be empty

- optional parameter TestString and Yes/Not - function try to find exact TestString in String and if found and parameter is set as Yes (is written "Yes"), row will be deleted, if parameter is set as Not (is written "Not"), row will be deleted if not found TestString in String

- optional parameter PrintPageCond - if this parameter is set (is written "PrintPageCond"), for execute is use conditions for printing pages (1-5,7,8,11,15-), check if String contain TestString(number) by the conditions for printing pages or not and by the Yes/Not parameter settings will be deleting row, parameter Show can be empty

**[VBA\_FUNC(DelTabRow;String[;optional Show[;optional TestString;Yes or Not[;optional PrintPageCond]]])]** - If String is empty, then delete row of table, else ""

- if is set optional parameter Show (is written "Show"), String will be showing; parameter Show can be empty

- optional parameter TestString and Yes/Not - function try to find exact TestString in String and if found and parameter is set as Yes (is written "Yes"), row of table will be deleted, if parameter is set as Not (is written "Not"), row of table will be deleted if not found TestString in String

- optional parameter PrintPageCond - if this parameter is set (is written "PrintPageCond"), for execute is use conditions for printing pages (1-5,7,8,11,15-), check if String contain TestString(number) by the conditions for printing pages or not and by the Yes/Not parameter settings will be deleting row of table, parameter Show can be empty

**[VBA\_FUNC(InsertImage;PathImage[;optional ImageName;optional (Borders);optional (Size)])]** - function for insert image to document

- PathImage - path to folder or full path to image

- ImageName - Image file name or begining part of image name

- Borders - (LineWidth[,optional LineStyle,optional Color]), if only LineWidth, () does not have to be used

LineWidth in pt (default=0,5pt): X (X is value for .Line.Weight in pt); first versions used value for .Borders.OutsideLineWidth = x in pt / 0,125; 0,125pt=1;0,25pt=2;0,375pt=3;0,5pt=4;1pt=8;2pt=16;...

LineStyle (default=1): 0=NoBorder;1=SolidLine;2=SquareDotLine;3=RoundDotLine;4=DashLine;5=DashDotLine; next see <https://docs.microsoft.com/en-us/office/vba/api/office.msolinedashstyle>

Color (default=0): 0=Black; next see <https://docs.microsoft.com/en-us/dotnet/api/microsoft.office.interop.word.wdcolor?view=word-pia>

- Size - ([optional Height][,optional Width]) - in mm (for decimal number use decimal dot - 10.7) or % for percentage of original (75.2%)

for Height use - ...;4.7)], if only Height, () does not have to be used

for Width use - ...;(,4.7))], if only Width or both parameters used, () must be used

**[VBA\_FUNC(TextEvaluate;String For Evaluate[;optional String separator; optional next String for evaluate; optional next String for evaluate;...])]**

* format of String For Evaluate - FirstPart(SecondPart) or FirstPart
* function try to found FirstPart in Select Case statment and perform the steps wroted there

**ProperCase(String)** - only first character in the string will be Upper, another characters will be without changes

**InsertCrossReference(WdReferenceType;WdReferenceKind;LookFor string[;optional NotFound string])** - insert cros reference link to part of document LookFor string and if not found, LookFor string without cross reference or NotFound string will be insert

for WdReferenceType see https://docs.microsoft.com/en-us/office/vba/api/word.wdreferencetype

for WdReferenceKind see https://docs.microsoft.com/en-us/office/vba/api/word.wdreferencekind

**HyperLinkChange(String)** - check all hyperlinks and find all which contain String in Address; next replace Address by the TextToDisplay and for special cache (TextToDisplay contain MLFB), replace language settings in TextToDisplay and Address (de-DE to en-EN,...)