**Function CONCAT\_EXT:**

Concatenated two strings together. Means: Combine STR1 and STR2 into a single string STR1STR2.

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| --- | --- | --- | --- |
| **Variablentyp** | **Name** | **Datentyp** | **Kommentar** |
| VAR\_OUTPUT | CONCAT\_EXT | BOOL | Return value of the function |
| VAR\_INPUT | psDestStr | POINTER TO STRING | Pointer to the string variable of the concatenated string |
| VAR\_INPUT | psStr1 | POINTER TO STRING | Pointer to the string variable of the first string |
| VAR\_INPUT | psStr2 | POINTER TO STRING | Pointer to the string variable of the second string |

**Function DELETE\_EXT:**

Deletes a number of characters from a string. Means: Delete iLen characters from STR, starting with the character at the iPos position.

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| --- | --- | --- | --- |
| **Variablentyp** | **Name** | **Datentyp** | **Kommentar** |
| VAR\_OUTPUT | DELETE\_EXT | BOOL | Return value of the function |
| VAR\_INPUT | psDestStr | POINTER TO STRING | Pointer to the string variable of the remaining string |
| VAR\_INPUT | psStr | POINTER TO STRING | Pointer to the string variable to be processed |
| VAR\_INPUT | iLen | INT | Length of the characters to be deleted |
| VAR\_INPUT | iPos | INT | Position in "psStr" after which the characters are deleted. Counting is from the left, starting from 1. |

**Function FIND\_EXT:**

Finds the position of a substring within a string. Means: Find the position of the first character of the first occurrence of STR2 in STR1. If STR2 does not appear in STR1, then OUT: = 0.

|  |  |  |  |
| --- | --- | --- | --- |
| **Variablentyp** | **Name** | **Datentyp** | **Kommentar** |
| VAR\_OUTPUT | FIND\_EXT | INT | Is the position at which "psStr2" was found in "psStr1" (return value). If "psStr2" was not found, "0" is returned. |
| VAR\_INPUT | psStr1 | POINTER TO STRING | Pointer to the string variable in which "psStr2" is to be searched for |
| VAR\_INPUT | psStr2 | POINTER TO STRING | Pointer to the string variable in which the characters to be searched for are located |

**Function INSERT\_EXT:**

Inserts a string from a certain point into another string. Means: Insert STR2 in STR1 at position iPos.

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| --- | --- | --- | --- |
| **Variablentyp** | **Name** | **Datentyp** | **Kommentar** |
| VAR\_OUTPUT | INSERT\_EXT | BOOL | Return value of the function |
| VAR\_INPUT | psDestStr | POINTER TO STRING | Pointer to the string variable of the resulting string |
| VAR\_INPUT | psStr1 | POINTER TO STRING | Pointer to the string variable in which "psStr2" is to be inserted |
| VAR\_INPUT | psStr2 | POINTER TO STRING | Pointer to the string variable to be inserted in "psStr1" |
| VAR\_INPUT | iPos | INT | Position at which "psStr2" is to be inserted in "psStr1":   * 0 -> Insert before the first character * 1 -> Insert after the first character |

**Function LEFT\_EXT:**

Returns a certain number of characters in a string, starting from the left. Means: Return the first iSize characters from the left from the string STR.

|  |  |  |  |
| --- | --- | --- | --- |
| **Variablentyp** | **Name** | **Datentyp** | **Kommentar** |
| VAR\_OUTPUT | LEFT\_EXT | BOOL | Return value of the function |
| VAR\_INPUT | psDestStr | POINTER TO STRING | Pointer to the string variable of the resulting string |
| VAR\_INPUT | psStr | POINTER TO STRING | Pointer to the string variable to be analyzed |
| VAR\_INPUT | iSize | INT | Number of characters starting from the left |

**Function LEN\_EXT:**

Returns the number of characters in a string.

|  |  |  |  |
| --- | --- | --- | --- |
| **Variablentyp** | **Name** | **Datentyp** | **Kommentar** |
| VAR\_OUTPUT | LEN\_EXT | INT | The length of the string variable "psStr" |
| VAR\_INPUT | psStr | POINTER TO STRING | Pointer to the string variable to be analyzed |

**Function MID\_EXT:**

Returns a certain number of characters in a string, starting at a specified position. Means: Find iLen characters of the string STR, starting with the character at the position iPos.

|  |  |  |  |
| --- | --- | --- | --- |
| **Variablentyp** | **Name** | **Datentyp** | **Kommentar** |
| VAR\_OUTPUT | MID\_EXT | BOOL | Return value of the function |
| VAR\_INPUT | psDestStr | POINTER TO STRING | Pointer to the string variable of the substring |
| VAR\_INPUT | psStr | POINTER TO STRING | Pointer to the string variable to be analyzed |
| VAR\_INPUT | iLen | INT | Number of characters counting from the left |
| VAR\_INPUT | iPos | INT | Start position of the substring |

**Function REPLACE\_EXT:**

Replaces a certain number of characters in a string with another string. Means: Replace iLen characters from STR1 with STR2, starting with the character at the position iPos.

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| --- | --- | --- | --- |
| **Variablentyp** | **Name** | **Datentyp** | **Kommentar** |
| VAR\_OUTPUT | REPLACE\_EXT | BOOL | Return value of the function |
| VAR\_INPUT | psDestStr | POINTER TO STRING | Pointer to the string variable of the resulting string |
| VAR\_INPUT | psStr1 | POINTER TO STRING | Pointer to the string variable in which "psStr2" is to be replaced |
| VAR\_INPUT | psStr2 | POINTER TO STRING | Pointer to the string variable to be used in "psStr1" |
| VAR\_INPUT | iLen | INT | Number of characters to be replaced in "psStr1" |
| VAR\_INPUT | iPos | INT | Start position at which "psStr2" is to be used in "psStr1". If iPos=0 or iPos=1, the first position in the string is replaced. If iPos=0, iLen is reduced by one. |

**Function RIGHT\_EXT:**

Returns a certain number of characters in a string, starting from the right. Means: Return the first iSize characters from the right from the string STR.

|  |  |  |  |
| --- | --- | --- | --- |
| **Variablentyp** | **Name** | **Datentyp** | **Kommentar** |
| VAR\_OUTPUT | RIGHT\_EXT | BOOL | Return value of the function |
| VAR\_INPUT | psDestStr | POINTER TO STRING | Pointer to the string variable of the resulting string |
| VAR\_INPUT | psStr1 | POINTER TO STRING | Pointer to the string variable to be analyzed |
| VAR\_INPUT | psStr2 | POINTER TO STRING | Number of characters starting from the right |