

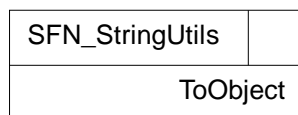
# Name: SFN\_StringUtils

Revision: 0.9

Ladder: false

Complex: false

Graphic Schema:



Comment: String utilities.

Note: Lasal OS supports now also direct access to string functions.  
(see \_memset() and

Server: Name: ToObject  
GUID: {F1A26105-F750-432C-9382-46CDE636176F}  
Class: SFN\_StringUtils  
Visualized: false  
DataType: DINT  
Type: Object Channel  
Initialize: false  
WriteProtected: true  
Retentive: false

Methods: Name: GetNextDelimiter  
Virtual: false  
Global access: true  
AWL implementation: false  
CDecl: false  
Input:: Name: p\_Buf  
Type: ^CHAR  
Pointer: true  
Register: <undefined>  
Input:: Name: p\_Delimiters  
Type: ^CHAR  
Pointer: true  
Register: <undefined>  
Output:: Name: p\_DelimiterChar  
Type: ^CHAR  
Pointer: true  
Register: <undefined>

Name: GetSubString  
Virtual: false  
Global access: true  
AWL implementation: false  
CDecl: false  
Comment: This method returns a zero-terminated substring.  
Parameters:  
-Delimiters : a string containing the delimiters.  
-nrDelimiters : the number of delimiters in the delimiter string.  
-InputBufferSize : The size of the input buffer  
-p\_InputBuffer : pointer to the input buffer  
-p\_Substring : pointer to the string the result wwill be stored in  
Returns:  
-If the substring is parsed successfully: the size of the returned substring  
-No delimiter is found: -1  
Input:: Name: Delimiters  
Type: ^CHAR  
Pointer: true  
Register: <undefined>  
Input:: Name: NrDelimiters  
Type: BYTE  
Pointer: false  
Register: <undefined>  
Input:: Name: InputBufferSize  
Type: DINT  
Pointer: true  
Register: <undefined>

Register:	<undefined>
Input::	Name: p_InputBuffer
	Type: ^CHAR
	Pointer: true
	Register: <undefined>
Input::	Name: p_Substring
	Type: ^CHAR
	Pointer: true
	Register: <undefined>
Output::	Name: NrCharsParsed
	Type: INT
	Pointer: false
	Register: <undefined>
Name:	IsNumChar
Virtual:	false
Global access:	true
AWL implementation:	false
CDecl:	false
Comment:	This method determines if a character is of type numeric.
	Parameters:
	-c : character to be analyzed
	Returns:
	-true : character is numeric.
	-false: character is not numeric.
Input::	Name: c
	Type: CHAR
	Pointer: false
	Register: <undefined>
Output::	Name: RetVal
	Type: BOOL
	Pointer: false
	Register: <undefined>
Name:	IsAlphaChar
Virtual:	false
Global access:	true
AWL implementation:	false
CDecl:	false
Comment:	This method determines if a character is of type alpha.
	Parameters:
	-c : character to be analyzed
	Returns:
	-true : character is alpha.
	-false: character is not alpha.
Input::	Name: c
	Type: CHAR
	Pointer: false
	Register: <undefined>
Output::	Name: RetVal
	Type: BOOL
	Pointer: false
	Register: <undefined>
Name:	IsAlphaNumChar
Virtual:	false
Global access:	true
AWL implementation:	false
CDecl:	false
Comment:	This method determines if a character is alphanumeric.
	Parameters:
	-c : character to be analyzed
	Returns:
	-true : character is alphanumeric.
	-false: character is not alphanumeric.
Input::	Name: c
	Type: CHAR
	Pointer: false
	Register: <undefined>
Output::	Name: RetVal
	Type: BOOL
	Pointer: false
	Register: <undefined>

Name: AddCharInString  
 Virtual: false  
 Global access: false  
 AWL implementation: false  
 CDecl: false  
 Input:: Name: p\_string  
 Type: pChar  
 Pointer: false  
 Register: <undefined>  
 Input:: Name: charValue  
 Type: CHAR  
 Pointer: false  
 Register: <undefined>

Name: ConvertUdintToAsciiHex  
 Virtual: false  
 Global access: true  
 AWL implementation: false  
 CDecl: false  
 Input:: Name: p\_string  
 Type: ^CHAR  
 Pointer: true  
 Register: <undefined>  
 Input:: Name: Value  
 Type: UDINT  
 Pointer: false  
 Register: <undefined>  
 Input:: Name: valueSize  
 Type: UDINT  
 Pointer: false  
 Register: <undefined>

Name: ConvertUdintToAsciiDec  
 Virtual: false  
 Global access: true  
 AWL implementation: false  
 CDecl: false  
 Input:: Name: p\_string  
 Type: ^CHAR  
 Pointer: true  
 Register: <undefined>  
 Input:: Name: Value  
 Type: UDINT  
 Pointer: false  
 Register: <undefined>

Name: ConvertDintToAsciiHex  
 Virtual: false  
 Global access: true  
 AWL implementation: false  
 CDecl: false  
 Input:: Name: p\_string  
 Type: ^CHAR  
 Pointer: true  
 Register: <undefined>  
 Input:: Name: Value  
 Type: DINT  
 Pointer: false  
 Register: <undefined>  
 Input:: Name: valueSize  
 Type: UDINT  
 Pointer: false  
 Register: <undefined>

Name: ConvertDintToAsciiDec  
 Virtual: false  
 Global access: true  
 AWL implementation: false  
 CDecl: false

Register:	<undefined>
Input::	Name: Value
	Type: DINT
	Pointer: false
	Register: <undefined>
Name:	ConvertAsciiToDint
Virtual:	false
Global access:	true
AWL implementation:	false
CDecl:	false
Input::	Name: p_string
	Type: ^CHAR
	Pointer: true
	Register: <undefined>
Output::	Name: Output
	Type: DINT
	Pointer: false
	Register: <undefined>
Name:	ConvertAsciiHexToDint
Virtual:	false
Global access:	false
AWL implementation:	false
CDecl:	false
Input::	Name: p_string
	Type: ^CHAR
	Pointer: true
	Register: <undefined>
Output::	Name: Output
	Type: DINT
	Pointer: false
	Register: <undefined>
Name:	ConvertAsciiDecToDint
Virtual:	false
Global access:	false
AWL implementation:	false
CDecl:	false
Input::	Name: p_string
	Type: ^CHAR
	Pointer: true
	Register: <undefined>
Output::	Name: Output
	Type: DINT
	Pointer: false
	Register: <undefined>
Name:	ConvertAsciiToUdint
Virtual:	false
Global access:	true
AWL implementation:	false
CDecl:	false
Input::	Name: p_string
	Type: ^CHAR
	Pointer: true
	Register: <undefined>
Output::	Name: Output
	Type: UDINT
	Pointer: false
	Register: <undefined>
Name:	ConvertAsciiHexToUdint
Virtual:	false
Global access:	false
AWL implementation:	false
CDecl:	false
Input::	Name: p_string
	Type: ^CHAR
	Pointer: true
	Register: <undefined>
Output::	Name: Output
	Type: UDINT
	Pointer: false
	Register: <undefined>

	Pointer:	false
	Register:	<undefined>
Name:	ConvertAsciiDecToUdint	
Virtual:	false	
Global access:	false	
AWL implementation:	false	
CDecl:	false	
Input::	Name:	p_string
	Type:	^CHAR
	Pointer:	true
	Register:	<undefined>
Output::	Name:	Output
	Type:	UDINT
	Pointer:	false
	Register:	<undefined>
Name:	StringCat	
Virtual:	false	
Global access:	true	
AWL implementation:	false	
CDecl:	false	
Input::	Name:	p_Dest
	Type:	^CHAR
	Pointer:	true
	Register:	<undefined>
Input::	Name:	p_Add
	Type:	^CHAR
	Pointer:	true
	Register:	<undefined>
Name:	StringCatLimited	
Virtual:	false	
Global access:	true	
AWL implementation:	false	
CDecl:	false	
Input::	Name:	p_Dest
	Type:	^CHAR
	Pointer:	true
	Register:	<undefined>
Input::	Name:	p_Add
	Type:	^CHAR
	Pointer:	true
	Register:	<undefined>
Input::	Name:	DestSize
	Type:	UDINT
	Pointer:	false
	Register:	<undefined>
Name:	StringCompare	
Virtual:	false	
Global access:	true	
AWL implementation:	false	
CDecl:	false	
Comment:	This method compares 2 zero-terminated strings. The caller has to make sure both strings are zero-terminated.	
	Parameters:	
	-string1: A pointer to the first string	
	-string2: A pointer to the second string	
	Returns:	
	-true : if string1 and string2 are equal	
	-false : if string1 and string2 are not equal.	
Input::	Name:	p_String1
	Type:	^CHAR
	Pointer:	true
	Register:	<undefined>
Input::	Name:	p_String2
	Type:	^CHAR
	Pointer:	true
	Register:	<undefined>

	Register: <undefined>
Name:	StringCopy
Virtual:	false
Global access:	true
AWL implementation:	false
CDecl:	false
Comment:	Description: Copies a zero-terminated string from source to destination. Parameters: -p_Src : pointer to the source string -p_Dest : pointer to the destination string Returns : nothing
Input::	Name: p_Src Type: ^CHAR Pointer: true Register: <undefined>
Input::	Name: p_Dest Type: ^CHAR Pointer: true Register: <undefined>
Name:	StringLength
Virtual:	false
Global access:	true
AWL implementation:	false
CDecl:	false
Comment:	This method determined the length of a given zero-terminated string. The user has to make sure the supplied string is zero-terminated. Parameters: -p_String : Pointer to the string. Returns : The length of the given string including the zero-terminator
Input::	Name: p_String Type: ^CHAR Pointer: true Register: <undefined>
Output::	Name: Length Type: UINT Pointer: false Register: <undefined>
Name:	StringNCopy
Virtual:	false
Global access:	true
AWL implementation:	false
CDecl:	false
Input::	Name: p_Src Type: ^CHAR Pointer: true Register: <undefined>
Input::	Name: p_Dest Type: ^CHAR Pointer: true Register: <undefined>
Input::	Name: size Type: UDINT Pointer: false Register: <undefined>
Name:	StrStr
Virtual:	false
Global access:	true
AWL implementation:	false
CDecl:	false
Comment:	Searches a (sub)string in a string
Input::	Name: p_searchStr Type: ^CHAR Pointer: true Register: <undefined>
Input::	Name: p_lookupStr

Output::  
Pointer: true  
Register: <undefined>  
Comment: String to look for in search string  
Name: p\_ReturnStr  
Type: ^CHAR  
Pointer: true  
Register: <undefined>  
Comment: Return the position in search string  
where the lookfor string is found.  
If lookfor string is not found  
or wrong parameters where used  
(NIL pointers) a NIL is returned

Defines:

Dependencies:

Types: pChar