

Documentation
of
TNoDave Component Help
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II Files

II Files

II.1 List of Files

Independent Units

NoDaveComponent

II.2 Unit NoDaveComponent

Used Units:

Used in interface:

System, SysInit, SysUtils, Classes, NoDave, SyncObjs, Windows

Used in implementation:

None

Description:

TODO

Delphi-Installation:

1. Select Component - Install in the Delphi-menu
2. Select Add... button
3. Select Browse
4. Select NoDaveComponent.pas
5. Select OK

Lazarus-Installation:

1. Select Components - Open package file
2. Select nodavepackage.lpk
3. Select Open
4. Select Compile
5. Select Install
6. Select Yes

The Unit NoDaveComponent implements the class TNoDave, which encapsulates the access to the libnodave.dll.

With TNoDave and libnodave.dll it is very easy to read and write data from and to a S7 PLC.

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II.2.1 Constants

II.2.1.1 daveAnaIn

* daveAnaIn = **TNoDaveArea(2)**

Analog input words of 200 family

II.2.1.2 daveAnaOut

* daveAnaOut = **TNoDaveArea(3)**

Analog output words of 200 family

II.2.1.3 daveCounter

* daveCounter = **TNoDaveArea(11)**

Counter

II.2.1.4 Unit NoDaveComponent - Constants daveDB

II.2.1.4 daveDB

* daveDB = **TNoDaveArea(7)**

Data Blocks (global data)

II.2.1.5 daveDebugByte

* daveDebugByte = **TNoDaveDebugOption(7)**

II.2.1.6 daveDebugCompare

* daveDebugCompare = **TNoDaveDebugOption(8)**

II.2.1.7 daveDebugConnect

* daveDebugConnect = **TNoDaveDebugOption(5)**

II.2.1.8 daveDebugExchange

* daveDebugExchange = **TNoDaveDebugOption(9)**

II.2.1.9 daveDebugInitAdapter

* daveDebugInitAdapter = **TNoDaveDebugOption(4)**

II.2.1.10 daveDebugListReachables

* daveDebugListReachables = **TNoDaveDebugOption(3)**

II.2.1.11 daveDebugMPI

* daveDebugMPI = **TNoDaveDebugOption(12)**

II.2.1.12 daveDebugPacket

* daveDebugPacket = **TNoDaveDebugOption(6)**

II.2.1.13 daveDebugPassive

* daveDebugPassive = **TNoDaveDebugOption(14)**

II.2.1.14 daveDebugPDU

* daveDebugPDU = **TNoDaveDebugOption(10)**

II.2.1.15 daveDebugPrintErrors

* daveDebugPrintErrors = **TNoDaveDebugOption(13)**

II.2.1.16 daveDebugRawRead

* daveDebugRawRead = **TNoDaveDebugOption(0)**

II.2.1.17 daveDebugRawWrite

* daveDebugRawWrite = **TNoDaveDebugOption(2)**

II.2.1.18 daveDebugSpecialChars

* daveDebugSpecialChars = **TNoDaveDebugOption(1)**

II.2.1.19 daveDebugUpload

* daveDebugUpload = **TNoDaveDebugOption(11)**

II.2.1.20 daveDI

* daveDI = **TNoDaveArea(8)**

Data Blocks (instance data) ?

II.2.1.21 daveFlags

* daveFlags = **TNoDaveArea(6)**

Flags/Markers

II.2.1.22 daveInputs

* daveInputs = **TNoDaveArea(4)**

Input memory image

II.2.1.23 daveLocal

* daveLocal = **TNoDaveArea(9)**

Data Blocks (local data) ?

II.2.1.24 daveOutputs

* daveOutputs = `TNoDaveArea(5)`

Output memory image

II.2.1.25 daveP

* daveP = `TNoDaveArea(13)`

Peripherie Input/Output

II.2.1.26 daveProtoIBH

* daveProtoIBH = `TNoDaveProtocol(5)`

IBH-Link TCP/MPI-Adapter

II.2.1.27 daveProtoISOTCP

* daveProtoISOTCP = `TNoDaveProtocol(3)`

ISO over TCP

II.2.1.28 daveProtoISOTCP243

* daveProtoISOTCP243 = `TNoDaveProtocol(4)`

ISO over TCP (for CP243)

II.2.1.29 daveProtoMPI

* daveProtoMPI = `TNoDaveProtocol(0)`

MPI-Protocol

II.2.1.30 daveProtoMPI2

* daveProtoMPI2 = `TNoDaveProtocol(1)`

MPI-Protocol (Andrew's version)

II.2.1.31 daveProtoPPI

* daveProtoPPI = `TNoDaveProtocol(2)`

PPI-Protocol

II.2.1.32 daveSpeed1500k

* daveSpeed1500k = `TNoDaveSpeed(4)`

II.2.1.33 daveSpeed187k

* daveSpeed187k = `TNoDaveSpeed(2)`

II.2.1.34 daveSpeed19k

* daveSpeed19k = **TNoDaveSpeed(1)**

II.2.1.35 daveSpeed45k

* daveSpeed45k = **TNoDaveSpeed(5)**

II.2.1.36 daveSpeed500k

* daveSpeed500k = **TNoDaveSpeed(3)**

II.2.1.37 daveSpeed93k

* daveSpeed93k = **TNoDaveSpeed(6)**

II.2.1.38 daveSpeed9k

* daveSpeed9k = **TNoDaveSpeed(0)**

II.2.1.39 daveSysFlags

* daveSysFlags = **TNoDaveArea(1)**

System flag area of 200 family

II.2.1.40 daveSysInfo

* daveSysInfo = **TNoDaveArea(0)**

System information of 200 family

II.2.1.41 daveTimer

* daveTimer = **TNoDaveArea(12)**

Timer

II.2.1.42 daveV

* daveV = **TNoDaveArea(10)**

unknown Area

II.2.2 Functions**II.2.2.1 Register**

* **procedure Register**

Installation of TNoDave in the component palette

II.2.3 Unit NoDaveComponent - Simple Types

II.2.3 Simple Types

II.2.3.1 TNoDave

See in the part of Classes on [TNoDave](#).

II.2.3.2 TNoDaveArea

* TNoDaveArea = (daveSysInfo, daveSysFlags, daveAnaIn, daveAnaOut, daveInputs, daveOutputs, daveFlags, daveDB, daveDI, daveLocal, daveV, daveCounter, daveTimer, daveP)

The area of the PLC-Data for the TNoDave-Component.

II.2.3.3 TNoDaveConnectThread

See in the part of Classes on [TNoDaveConnectThread](#).

II.2.3.4 TNoDaveDebugOption

* TNoDaveDebugOption = (daveDebugRawRead, daveDebugSpecialChars, daveDebugRawWrite, daveDebugListReachables, daveDebugInitAdapter, daveDebugConnect, daveDebugPacket, daveDebugByte, daveDebugCompare, daveDebugExchange, daveDebugPDU, daveDebugUpload, daveDebugMPI, daveDebugPrintErrors, daveDebugPassive)

The debug-options for the libnodave.dll

II.2.3.5 TNoDaveDebugOptions

* TNoDaveDebugOptions = **set of** [TNoDaveDebugOption](#)

II.2.3.6 TNoDaveOnErrorEvent

* TNoDaveOnErrorEvent = **procedure** (Sender: TComponent; ErrorMsg: String) **of object**

This is the type of the Event-Handler for the OnError-Event of the TNoDave component.

Parameters

Sender

The TNoDave-instance which is the source of the event.

ErrorMsg

A clear text message describing the error.

II.2.3.7 TNoDaveProtocol

* TNoDaveProtocol = (daveProtoMPI, daveProtoMPI2, daveProtoPPI, daveProtoISOTCP, daveProtoISOTCP243, daveProtoIBH)

The type of the communication-protocol for the TNoDave-Component.

II.2.3.8 TNoDaveReachablePartnersMPI

* TNoDaveReachablePartnersMPI = **array** [0 .. 126] **of** Boolean

List of reachable Partners in the MPI-Network, True = Station is available at this address.

II.2.3.9 TNoDaveReadThread

See in the part of Classes on [TNoDaveReadThread](#).

II.2.3.10 TNoDaveSpeed

* TNoDaveSpeed = (daveSpeed9k, daveSpeed19k, daveSpeed187k, daveSpeed500k, daveSpeed1500k, daveSpeed45k, daveSpeed93k)

II.2.3.10 Unit NoDaveComponent - Simple Types

TNoDaveSpeed

The speed of the MPI-protocol for the TNoDave-Component.

III Records

III Records

III.1 List of Records

No types of this kind!

IV Objects

IV.1 List of Objects

No types of this kind!

V Classes

V.1 List of Classes

TComponent

 TNoDave

TThread

 TNoDaveConnectThread

 TNoDaveReadThread

V.2 class TNoDave

TObject <-- ... <-- TComponent <-- **TNoDave**
Unit **NoDaveComponent**

No known Subclasses

Used by Classes:

TNoDaveConnectThread, TNoDaveReadThread

Description:

The Class TNoDave encapsulates the access to the libnodave.dll of Thomas Hergenhahn. All the settings for the communication are available in the properties of TNoDave.

V.2.1 Properties

V.2.1.1 Active

* **property** Active: Boolean **read** GetActive **write** SetActive

Property for the connection-status.

V.2.1.2 Area

* **property** Area: **TNoDaveArea** **read** FArea **write** SetArea

Property for the PLC-area

V.2.1.3 Buffer

* **property** Buffer: String **read** GetBuffer

Property for the pointer to the internal buffer memory.

V.2.1.4 BufLen

* **property** BufLen: Integer **read** FBuflen **write** SetBufLen

Property for the length of the buffer.

V.2.1.5 BufOffs

* **property** BufOffs: Integer **read** FBufoffs **write** SetBufOffs

Property for the offset of the buffer within the address-range of the PLC.

V.2.1.6 COMPort

* **property** COMPort: String **read** FComPort **write** SetComPort

Property for the name of the COM-Port used for the serial-to-MPI adapter.

V.2.1.7 CPURack

* **property** CPURack: Integer **read** FCpuRack **write** SetCpuRack

Property for the number of the rack containing the CPU of the PLC.

V.2.1.8 CPUSlot

* **property** CPUSlot: Integer **read** FCpuSlot **write** SetCpuSlot

Property for the number of the slot containing the CPU of the PLC.

V.2.1.9 CycleTime

* **property** CycleTime: Cardinal **read** FCycleTime

Property for the duration in ms of the last communication cycle.

V.2.1.10 DBNumber

* **property** DBNumber: Integer **read** FDBNumber **write** SetDBNumber

Property for the number of the datablock in the PLC.

V.2.1.11 DebugOptions

* **property** DebugOptions: TNoDaveDebugOptions **read** GetDebugOptions **write** SetDebugOptions

Property for the debug-options.

V.2.1.12 Interval

* **property** Interval: Cardinal **read** FInterval **write** SetInterval

Property for the minimal round-trip cycle time for the background-communication with the PLC in milliseconds.

V.2.1.13 IntfName

* **property** IntfName: String **read** FIIntfName **write** SetIntfName

Property for the symbolic name of the interface.

V.2.1.14 IntfTimeout

* **property** IntfTimeout: Integer **read** FIIntfTimeout **write** SetIntfTimeout

Property for the timeout of the interface in milliseconds.

V.2.1.15 IPAddress

* **property** IPAddress: String **read** FIPAddress **write** SetIPAddress

Property for the IP-address or name of the TCP/IP partner station.

V.2.1.16 IPPort

* **property** IPPort: Integer **read** FIPPort **write** SetIPPort

Property for the IP-port of the TCP/IP partner station.

V.2.1.17 LastErrMsg

* **property** LastErrMsg: String **read** GetLastErrMsg

Property for the text describing the code in [LastError](#).

V.2.1.18 class TNoDave - Properties	LastError
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V.2.1.18 LastError

* **property** LastError: Integer **read** FLastError

Property for the return-code of the last call of a communication-method.

V.2.1.19 MPILocal

* **property** MPILocal: Integer **read** FMPILocal **write** SetMPILocal

Property for the local MPI-address used for the MPI-communication.

V.2.1.20 MPIRemote

* **property** MPIRemote: Integer **read** FMPIRemote **write** SetMPIRemote

Property for the remote MPI-address used for the MPI-communication.

V.2.1.21 MPISpeed

* **property** MPISpeed: TNoDaveSpeed **read** FMPISpeed **write** SetMPISpeed

Property for the MPI-speed used for the MPI-communication.

V.2.1.22 OnConnect

* **property** OnConnect: TNotifyEvent **read** FOnConnect **write** FOnConnect

Property for the OnConnect-eventhandler

V.2.1.23 OnDisconnect

* **property** OnDisconnect: TNotifyEvent **read** FOnDisconnect **write** FOnDisconnect

Property for the OnDisconnect-eventhandler

V.2.1.24 OnError

* **property** OnError: TNoDaveOnErrorEvent **read** FOnError **write** FOnError

Property for the OnError-eventhandler

V.2.1.25 OnRead

* **property** OnRead: TNotifyEvent **read** FOnRead **write** FOnRead

Property for the OnRead-eventhandler

V.2.1.26 OnWrite

* **property** OnWrite: TNotifyEvent **read** FOnWrite **write** FOnWrite

Property for the OnWrite-eventhandler

V.2.1.27 Protocol

* **property** Protocol: TNoDaveProtocol **read** FProtocol **write** SetProtocol

Property for the Protocol used for the communication with the PLC.

V.2.2 Methods

V.2.2.1 AreaCode

* **function** AreaCode(Area: **TNoDaveArea**): Integer

Determine the S7-ID of an Area.

Parameters

Area

 Requested Area.

Result

 S7-ID of the Area.

V.2.2.2 BufferAt

* **function** BufferAt(Address: Integer; Size: Integer = 1; Buffer: Pointer = **Nil**; BufOffs: Integer = 0; BufLen: Integer = 0): Pointer

Return a Pointer to the requested PLC-data point within the buffer.

Parameters

Address

 PLC-Address of the datapoint.

Size

 Size of the datapoint in bytes.

Buffer

 Pointer to the buffer holding the PLC-data. The internal buffer is used, if Nil (default).

BufOffs

 Offset-address of the buffer within the address-range of the PLC.

BufLen

 Length of the buffer in bytes.

Result

 Pointer to the requested data point if the address is located in the buffer, else Nil.

V.2.2.3 Connect

* **procedure** Connect(Wait: Boolean = True)

Open the connection to the PLC.

Parameters

Wait

 If False the connection is opened asynchronous in a separate thread. Default is True.

V.2.2.4 Create

* **constructor** Create(aOwner: TComponent); **override**

Initialize a new instance of the TNoDave component.

Parameters

aOwner

 Owner of the created instance.

Overrides

Create

V.2.2.5 class TNoDave - Methods	Destroy
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V.2.2.5 Destroy

* **destructor** Destroy; **override**

Close an active connection and call the inherited Destroy method.

Overrides

Destroy

V.2.2.6 Disconnect

* **procedure** Disconnect

Close the connection to the PLC.

V.2.2.7 DoConnect

* **procedure** DoConnect

Open the connection to the PLC specified by the properties Protocol, CPURack, CPUSlot, COMPort, IPAddress, IPPort, MPILocal, MPIRemote and/or MPISpeed

V.2.2.8 DoOnConnect

* **procedure** DoOnConnect

Create the worker-thread for cyclic reading if neccessary and call the OnConnect-eventhandler if specified.

V.2.2.9 DoOnDisconnect

* **procedure** DoOnDisconnect

Stop and Destroy the worker-thread for cyclic reading if neccessary and call the OnDisconnect-eventhandler if specified.

V.2.2.10 DoOnError

* **procedure** DoOnError(ErrorMsg: String)

Call the OnError-eventhandler if specified.

Parameters

ErrorMsg

The text-message for the OnError-event

V.2.2.11 DoOnRead

* **procedure** DoOnRead

Call the OnRead-eventhandler if specified.

V.2.2.12 DoOnWrite

* **procedure** DoOnWrite

Call the OnWrite-eventhandler if specified.

V.2.2.13 DoReadBytes

*** procedure** DoReadBytes(Buffer: Pointer = **Nil**)

Read the PLC-data into the buffer.

Parameters

Buffer

Pointer to the buffer. The internal buffer of the instance is used, if Nil (default).

V.2.2.14 DoSetDebug

*** procedure** DoSetDebug(Options: Integer)

Set the debug-options of the libnodave.dll

Parameters

Options

Value of the debug-options.

V.2.2.15 DoWriteBytes

*** procedure** DoWriteBytes(Buffer: Pointer = **Nil**)

Write the Buffer-data into the PLC.

Parameters

Buffer

Pointer to the buffer. The internal buffer of the instance is used, if Nil (default).

V.2.2.16 DoWriteValue

*** procedure** DoWriteValue(Address, Size: Integer; Value: Pointer)

Write a single value into the specified address of the PLC without changing the properties of the TNoDave-instance.

Parameters

Address

PLC-Address of the data point.

Size

Size in bytes of the value.

Value

The value to be written.

V.2.2.17 GetActive

*** function** GetActive: Boolean

Return the state of the connection to the PLC.

Result

True, if connection is open, else False.

V.2.2.18 GetBit

*** function** GetBit(Address, Bit: Integer; Buffer: Pointer = **Nil**; BufOffs: Integer = 0; BufLen: Integer = 0) : Boolean

Return the Bit-value read last from the PLC at the specified address.

Parameters

Address

Byte-address of the requested value

Bit

Bit-address of the requested value

Buffer

Pointer to the buffer holding the PLC-data. The internal buffer is used, if Nil (default).

BufOffs

Offset-address of the buffer within the address-range of the PLC.

BufLen

Length of the buffer in bytes.

Result

The requested value or False, if the requested address was not found within the buffer.

V.2.2.19 GetBuffer*** function GetBuffer: String**

Return a textual representation of the content of the internal buffer.

Result

String with the hexadecimal value of the bytes in the buffer.

V.2.2.20 GetByte*** function GetByte(Address: Integer; Buffer: Pointer = Nil; BufOffs: Integer = 0; BufLen: Integer = 0): Byte**

Return the Byte-value read last from the PLC at the specified address.

Parameters**Address**

Address of the requested value

Buffer

Pointer to the buffer holding the PLC-data. The internal buffer is used, if Nil (default).

BufOffs

Offset-address of the buffer within the address-range of the PLC.

BufLen

Length of the buffer in bytes.

Result

The requested value or 0, if the requested address was not found within the buffer.

V.2.2.21 GetDebugOptions*** function GetDebugOptions: TNoDaveDebugOptions**

Return the actual debug-options.

Result

Set of the actual debug-options.

V.2.2.22 GetDInt*** function GetDInt(Address: Integer; Buffer: Pointer = Nil; BufOffs: Integer = 0; BufLen: Integer = 0): LongInt**

Return the LongInt-value read last from the PLC at the specified address.

Parameters**Address**

Address of the requested value

Buffer

Pointer to the buffer holding the PLC-data. The internal buffer is used, if Nil (default).

BufOffs

Offset-address of the buffer within the address-range of the PLC.

BuffLen

Length of the buffer in bytes.

Result

The requested value or 0, if the requested address was not found within the buffer.

V.2.2.23 GetDWord

*** function** GetDWord(Address: Integer; Buffer: Pointer = **Nil**; BufOffs: Integer = 0; BufLen: Integer = 0) : LongWord

Return the LongWord-value read last from the PLC at the specified address.

Parameters**Address**

Address of the requested value

Buffer

Pointer to the buffer holding the PLC-data. The internal buffer is used, if Nil (default).

BufOffs

Offset-address of the buffer within the address-range of the PLC.

BufLen

Length of the buffer in bytes.

Result

The requested value or 0, if the requested address was not found within the buffer.

V.2.2.24 GetFloat

*** function** GetFloat(Address: Integer; Buffer: Pointer = **Nil**; BufOffs: Integer = 0; BufLen: Integer = 0): Double

Return the Float-value read last from the PLC at the specified address.

Parameters**Address**

Address of the requested value

Buffer

Pointer to the buffer holding the PLC-data. The internal buffer is used, if Nil (default).

BufOffs

Offset-address of the buffer within the address-range of the PLC.

BufLen

Length of the buffer in bytes.

Result

The requested value or 0, if the requested address was not found within the buffer.

V.2.2.25 GetInt

*** function** GetInt(Address: Integer; Buffer: Pointer = **Nil**; BufOffs: Integer = 0; BufLen: Integer = 0): SmallInt

Return the SmallInt-value read last from the PLC at the specified address.

Parameters**Address**

Address of the requested value

Buffer

Pointer to the buffer holding the PLC-data. The internal buffer is used, if Nil (default).

BufOffs

Offset-address of the buffer within the address-range of the PLC.

BufLen

Length of the buffer in bytes.

Result

The requested value or 0, if the requested address was not found within the buffer.

V.2.2.26 GetLastErrMsg

* **function** GetLastErrMsg: String

Return the description of the return-code in [LastError](#).

Result

The description of the return-code.

V.2.2.27 GetWord

* **function** GetWord(Address: Integer; Buffer: Pointer = **Nil**; BufOffs: Integer = 0; BufLen: Integer = 0): Word

Return the Word-value read last from the PLC at the specified address.

Parameters

Address

Address of the requested value

Buffer

Pointer to the buffer holding the PLC-data. The internal buffer is used, if Nil (default).

BufOffs

Offset-address of the buffer within the address-range of the PLC.

BufLen

Length of the buffer in bytes.

Result

The requested value or 0, if the requested address was not found within the buffer.

V.2.2.28 ListReachablePartners

* **function** ListReachablePartners: [TNoDaveReachablePartnersMPI](#)

Scan the MPI-bus for all reachable partners

Result

List with True for available partners and False for unavailable partners.

V.2.2.29 Loaded

* **procedure** Loaded; **override**

Open the connection to the PLC after the instance is completely loaded from the stream and if Active is True.

Overrides

Loaded

V.2.2.30 Lock

* **procedure** Lock

Lock the communication-routines for the current tread.

V.2.2.31 ProtCode

* **function** ProtCode(Prot: [TNoDaveProtocol](#)): Integer

Determine the libnodave.dll-code of a protocol

Parameters**Prot**

The requested protocol

Result

The libnodave.dll code for the protocol

V.2.2.32 ReadBytes*** procedure** ReadBytes(**Area**: **TNoDaveArea**; **DB**, **Start**, **Size**: Integer; **Buffer**: Pointer = **Nil**); **overload**

Read the specified Data from the PLC into the buffer.

Parameters**Area**

Requested PLC-area.

DB

Number of requested datablock. Only used, if reading from Datablocks in the PLC.

Start

Start-address of the requested data within the address-range of the PLC.

Size

Length of the requested PLC-data in bytes.

Buffer

Pointer to the buffer for PLC-data. The internal buffer is used, if Nil (default).

V.2.2.33 ReadBytes*** procedure** ReadBytes(**Buffer**: Pointer = **Nil**); **overload**Read the Data specified by the properties **Area**, **DBNumber**, **BufOffs** and **BufLen** from the PLC into the buffer.**Parameters****Buffer**

Pointer to the buffer for PLC-data. The internal buffer is used, if Nil (default).

V.2.2.34 SetActive*** procedure** SetActive(**V**: Boolean)Set the property **Active** and call either **Connect** or **Disconnect**, depending on the requested value.**Parameters****V**

The requested state.

V.2.2.35 SetArea*** procedure** SetArea(**V**: **TNoDaveArea**)Set the property **Area**.**Parameters****V**The **PLC-Area**.**V.2.2.36 SetBufLen***** procedure** SetBufLen(**V**: Integer)Set the property **BufLen** and reserve the required memory.

Parameters

V

The length of the buffer in bytes.

V.2.2.37 SetBufOffs

*** procedure** SetBufOffs(V: Integer)

Set the property **BufOffs**.

Parameters

V

The address within the address-range of the PLC.

V.2.2.38 SetComPort

*** procedure** SetComPort(V: String)

Set the property **ComPort**.

Parameters

V

The Name of the ComPort.

V.2.2.39 SetCpuRack

*** procedure** SetCpuRack(V: Integer)

Set the property **CpuRack**.

Parameters

V

The rack of the PLC containing the CPU.

V.2.2.40 SetCpuSlot

*** procedure** SetCpuSlot(V: Integer)

Set the property **CpuSlot**.

Parameters

V

The Slot of the PLC containing the CPU.

V.2.2.41 SetDBNumber

*** procedure** SetDBNumber(V: Integer)

Set the property **DBNumber**.

Parameters

V

The requested number of the datablock.

V.2.2.42 SetDebugOptions

*** procedure** SetDebugOptions(V: **TNoDaveDebugOptions**)

Set the debug-options to a new value.

Parameters

V

The new set of debug-options.

V.2.2.43 SetInterval*** procedure** SetInterval(V: Cardinal)

Set the property **Interval**.

Parameters

V

The Interval for the background-communication in milliseconds. 0 if no background-communication is desired.

V.2.2.44 SetIntfName*** procedure** SetIntfName(V: String)

Set the property **IntfName**.

Parameters

V

The symbolic name of the interface.

V.2.2.45 SetIntfTimeout*** procedure** SetIntfTimeout(V: Integer)

Set the property **IntfTimeout**.

Parameters

V

The timeout of the interface in milliseconds.

V.2.2.46 SetIPAddress*** procedure** SetIPAddress(V: String)

Set the property **IPAddress**.

Parameters

V

The IP-address or name of the TCP/IP partner station.

V.2.2.47 SetIPPort*** procedure** SetIPPort(V: Integer)

Set the property **IPPort**.

Parameters

V

The IP-Port of the TCP/IP parter station.

V.2.2.48 SetMPILocal*** procedure** SetMPILocal(V: Integer)

Set the property **MPILocal**.

Parameters

V

The local MPI-address for the MPI communication.

V.2.2.49 SetMPIRemote*** procedure** SetMPIRemote(V: Integer)

Set the property **MPIRemote**.

Parameters

V

The remote MPI-address for the MPI communication.

V.2.2.50 SetMPISpeed*** procedure** SetMPISpeed(V: TNoDaveSpeed)

Set the property **MPISpeed**.

Parameters

V

The **speed** of the MPI-bus.

V.2.2.51 SetProtocol*** procedure** SetProtocol(V: TNoDaveProtocol)

Set the property **Protocol**.

Parameters

V

The requested **Protocol**.

V.2.2.52 Swap16*** function** Swap16(Value: SmallInt): SmallInt

Swap the byte-order in a 16-bit value.

Parameters

Value

The value for the conversion.

Result

The converted value.

V.2.2.53 Swap32*** function** Swap32(Value: Integer): Integer

Swap the byte-order in a 32-bit value.

Parameters

Value

The value for the conversion.

Result

The converted value.

V.2.2.54 Unlock*** procedure** Unlock

Unlock the communication-routines for other threads.

V.2.2.55 WriteBit*** procedure** WriteBit(Address, Bit: Integer; Value: Boolean); **overload**

Write a Bit-value into the PLC at the specified address without changing the properties of the TNoDave-instance.

Parameters

Address

Byte-address of the value

Bit

Bit-address of the value

Value

Value to write into the PLC.

V.2.2.56 WriteBit*** procedure** WriteBit(Area: **TNoDaveArea**; DB, Address, Bit: Integer; Value: Boolean); **overload**

Write a Bit-value into the PLC at the specified address without changing the properties of the TNoDave-instance.

Parameters

Area

Requested PLC-area.

DB

Number of requested datablock. Only used, if writing into datablocks of the PLC.

Address

Byte-address of the value

Bit

Bit-address of the value

Value

Value to write into the PLC.

V.2.2.57 WriteByte*** procedure** WriteByte(Address: Integer; Value: Byte)

Write a Byte-value into the PLC at the specified address without changing the properties of the TNoDave-instance.

Parameters

Address

Byte-address of the value

Value

Value to write into the PLC.

V.2.2.58 WriteBytes*** procedure** WriteBytes(Buffer: Pointer = **Nil**); **overload**

Write the buffer into the PLC at the address specified by the properties **Area**, **DBNumber**, **BufOffs** and **BufLen**.

Parameters

Buffer

Pointer to the buffer for PLC-data. The internal buffer is used, if Nil (default).

V.2.2.59 WriteBytes*** procedure** WriteBytes(Area: **TNoDaveArea**; DB, Start, Size: Integer; Buffer: Pointer = **Nil**); **overload**

Write the buffer into the PLC at the specified address after setting up the properties with the given values.

Parameters

Area

Requested PLC-area. Changes the property **Area**.

DB

Number of requested datablock. Changes the property **DBNumber**. Only used, if writing into datablocks of the PLC.

Start

Start-address of the buffer within the address-range of the PLC. Changes the property **BufOffs**.

Size

Length of the buffer in bytes. Changes the property **BufLen**.

Buffer

Pointer to the buffer for PLC-data. The internal buffer is used, if Nil (default).

V.2.2.60 WriteDInt*** procedure** WriteDInt(Address: Integer; Value: LongInt)

Write a LongInt-value into the PLC at the specified address without changing the properties of the TNoDave-instance.

Parameters

Address

Byte-address of the value

Value

Value to write into the PLC.

V.2.2.61 WriteDWord*** procedure** WriteDWord(Address: Integer; Value: LongWord)

Write a LongWord-value into the PLC at the specified address without changing the properties of the TNoDave-instance.

Parameters

Address

Byte-address of the value

Value

Value to write into the PLC.

V.2.2.62 WriteFloat*** procedure** WriteFloat(Address: Integer; Value: Single)

Write a Float-value into the PLC at the specified address without changing the properties of the TNoDave-instance.

Parameters

Address

Byte-address of the value

Value

Value to write into the PLC.

V.2.2.63 WriteInt

* **procedure** WriteInt(Address: Integer; Value: SmallInt)

Write a SmallInt-value into the PLC at the specified address without changing the properties of the TNoDave-instance.

Parameters

Address

Byte-address of the value

Value

Value to write into the PLC.

V.2.2.64 WriteWord

* **procedure** WriteWord(Address: Integer; Value: Word)

Write a Word-value into the PLC at the specified address without changing the properties of the TNoDave-instance.

Parameters

Address

Byte-address of the value

Value

Value to write into the PLC.

V.3 class TNoDaveConnectThread

TObject <-- ... <-- TThread <-- **TNoDaveConnectThread**
Unit **NoDaveComponent**

No known Subclasses

Not used by any known Class

Description:

Worker-thread for asynchronous connecting with the PLC.

V.3.1 Methods

V.3.1.1 Create

* **constructor** Create(Target: **TNoDave**)

Create the worker-thread for asynchronous connecting with the PLC.

Parameters

Target

The TNoDave-instance to connect with the PLC.

V.3.1.2 DoOnConnect

* **procedure** DoOnConnect

Synchronization-method for calling the OnConnect-Event of the TNoDave-instance.

V.3.1.3 DoOnError

* **procedure** DoOnError

Synchronization-method for calling the OnError-Event of the TNoDave-instance.

V.3.1.4 Execute

* **procedure** Execute; **override**

Open the connection to the PLC. If successfull then call the OnConnect-Event else call the OnError-Event of the TNoDave-instance.

Overrides

Execute

V.4 class TNoDaveReadThread

TObject <-- ... <-- TThread <-- **TNoDaveReadThread**
Unit **NoDaveComponent**

No known Subclasses

Not used by any known Class

Description:

Worker-thread for the background-communication with the PLC.

V.4.1 Methods

V.4.1.1 Create

* **constructor** Create(Target: **TNoDave**)

Create the worker-thread for the background-communication with the PLC.

Parameters

Target

The TNoDave-instance for the communication with the PLC.

V.4.1.2 DoOnError

* **procedure** DoOnError

Synchronization-method for calling the OnError-Event of the TNoDave-instance.

V.4.1.3 DoOnRead

* **procedure** DoOnRead

Synchronization-method for calling the OnRead-Event of the TNoDave-instance.

V.4.1.4 Execute

* **procedure** Execute; **override**

Read the data from the PLC, call the OnRead-Event of the TNoDave-instance, wait until the round-trip cycle time is reached and then start again from the beginning until the Connection of the TNoDave-instance is active. Disconnect the TNoDave-instance if the connection is not longer valid.

Overrides

Execute

VI Interfaces

VI.1 List of Interfaces

No types of this kind!

VII Dispatch-Interfaces

VII.1 List of Dispatch-Interfaces

No types of this kind!

VIII Lists/Appendix

VIII.1 List of unfinished Identifiers

VIII.1.1 List of unfinished files

NoDaveComponent

VIII.1.1 List of unfinished Identifiers - List of unfinished files

VIII.2 Index of Identifiers and Files starting with "A"

Identifier	File	Record-Like Type
Active	NoDaveComponent	TNoDave
Area	NoDaveComponent	TNoDave
AreaCode	NoDaveComponent	TNoDave

VIII.3 Index of Identifiers and Files starting with "B"

Identifier	File	Record-Like Type
Buffer	NoDaveComponent	TNoDave
BufferAt	NoDaveComponent	TNoDave
BufLen	NoDaveComponent	TNoDave
BufOffs	NoDaveComponent	TNoDave

VIII.4 Index of Identifiers and Files starting with "C"

Identifier	File	Record-Like Type
COMPort	NoDaveComponent	TNoDave
Connect	NoDaveComponent	TNoDave
CPURack	NoDaveComponent	TNoDave
CPUSlot	NoDaveComponent	TNoDave
Create	NoDaveComponent	TNoDave
Create	NoDaveComponent	TNoDaveConnectThread
Create	NoDaveComponent	TNoDaveReadThread
CycleTime	NoDaveComponent	TNoDave

VIII.5 Index of Identifiers and Files starting with "D"

Identifier	File	Record-Like Type
daveAnaIn	NoDaveComponent	
daveAnaOut	NoDaveComponent	
daveCounter	NoDaveComponent	
daveDB	NoDaveComponent	
daveDebugByte	NoDaveComponent	
daveDebugCompare	NoDaveComponent	
daveDebugConnect	NoDaveComponent	
daveDebugExchange	NoDaveComponent	
daveDebugInitAdapter	NoDaveComponent	
daveDebugListReachables	NoDaveComponent	
daveDebugMPI	NoDaveComponent	
daveDebugPacket	NoDaveComponent	
daveDebugPassive	NoDaveComponent	
daveDebugPDU	NoDaveComponent	
daveDebugPrintErrors	NoDaveComponent	
daveDebugRawRead	NoDaveComponent	
daveDebugRawWrite	NoDaveComponent	
daveDebugSpecialChars	NoDaveComponent	
daveDebugUpload	NoDaveComponent	
daveDI	NoDaveComponent	
daveFlags	NoDaveComponent	
daveInputs	NoDaveComponent	
daveLocal	NoDaveComponent	
daveOutputs	NoDaveComponent	
daveP	NoDaveComponent	

VIII.5 Index of Identifiers and Files starting with "D"

daveProtoIBH	NoDaveComponent
daveProtoISOTCP	NoDaveComponent
daveProtoISOTCP243	NoDaveComponent
daveProtoMPI	NoDaveComponent
daveProtoMPI2	NoDaveComponent
daveProtoPPI	NoDaveComponent
daveSpeed1500k	NoDaveComponent
daveSpeed187k	NoDaveComponent
daveSpeed19k	NoDaveComponent
daveSpeed45k	NoDaveComponent
daveSpeed500k	NoDaveComponent
daveSpeed93k	NoDaveComponent
daveSpeed9k	NoDaveComponent
daveSysFlags	NoDaveComponent
daveSysInfo	NoDaveComponent
daveTimer	NoDaveComponent
daveV	NoDaveComponent
DBNumber	NoDaveComponent
DebugOptions	NoDaveComponent
Destroy	NoDaveComponent
Disconnect	NoDaveComponent
DoConnect	NoDaveComponent
DoOnConnect	NoDaveComponent
DoOnConnect	NoDaveComponent
DoOnDisconnect	NoDaveComponent
DoOnError	NoDaveComponent
DoOnError	NoDaveComponent
DoOnError	NoDaveComponent
DoOnRead	NoDaveComponent
DoOnRead	NoDaveComponent
DoOnWrite	NoDaveComponent
DoReadBytes	NoDaveComponent
DoSetDebug	NoDaveComponent
DoWriteBytes	NoDaveComponent
DoWriteValue	NoDaveComponent
	TNoDave
	TNoDaveConnectThread
	TNoDave

VIII.6 Index of Identifiers and Files starting with "E"

Identifier	File	Record-Like Type
Execute	NoDaveComponent	TNoDaveConnectThread
Execute	NoDaveComponent	TNoDaveReadThread

VIII.7 Index of Identifiers and Files starting with "F"

Identifier	File	Record-Like Type
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VIII.8 Index of Identifiers and Files starting with "G"

Identifier	File	Record-Like Type
GetActive	NoDaveComponent	TNoDave
GetBit	NoDaveComponent	TNoDave
GetBuffer	NoDaveComponent	TNoDave
GetByte	NoDaveComponent	TNoDave
GetDebugOptions	NoDaveComponent	TNoDave
GetInt	NoDaveComponent	TNoDave

VIII.8 Index of Identifiers and Files starting with "G"

GetDWord	NoDaveComponent	TNoDave
GetFloat	NoDaveComponent	TNoDave
GetInt	NoDaveComponent	TNoDave
GetLastErrMsg	NoDaveComponent	TNoDave
GetWord	NoDaveComponent	TNoDave

VIII.9 Index of Identifiers and Files starting with "H"

Identifier	File	Record-Like Type
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VIII.10 Index of Identifiers and Files starting with "I"

Identifier	File	Record-Like Type
Interval	NoDaveComponent	TNoDave
IntfName	NoDaveComponent	TNoDave
IntfTimeout	NoDaveComponent	TNoDave
IPAddress	NoDaveComponent	TNoDave
IPPort	NoDaveComponent	TNoDave

VIII.11 Index of Identifiers and Files starting with "J"

Identifier	File	Record-Like Type
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VIII.12 Index of Identifiers and Files starting with "K"

Identifier	File	Record-Like Type
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VIII.13 Index of Identifiers and Files starting with "L"

Identifier	File	Record-Like Type
LastErrMsg	NoDaveComponent	TNoDave
LastError	NoDaveComponent	TNoDave
ListReachablePartners	NoDaveComponent	TNoDave
Loaded	NoDaveComponent	TNoDave
Lock	NoDaveComponent	TNoDave

VIII.14 Index of Identifiers and Files starting with "M"

Identifier	File	Record-Like Type
MPILocal	NoDaveComponent	TNoDave
MPIRemote	NoDaveComponent	TNoDave
MPISpeed	NoDaveComponent	TNoDave

VIII.15 Index of Identifiers and Files starting with "N"

Identifier	File	Record-Like Type
	NoDaveComponent	

VIII.16 Index of Identifiers and Files starting with "O"

Identifier	File	Record-Like Type
OnConnect	NoDaveComponent	TNoDave
OnDisconnect	NoDaveComponent	TNoDave
OnError	NoDaveComponent	TNoDave
OnRead	NoDaveComponent	TNoDave
OnWrite	NoDaveComponent	TNoDave

VIII.17 Index of Identifiers and Files starting with "P"

Identifier	File	Record-Like Type
ProtCode	NoDaveComponent	TNoDave
Protocol	NoDaveComponent	TNoDave

VIII.18 Index of Identifiers and Files starting with "Q"

Identifier	File	Record-Like Type

VIII.19 Index of Identifiers and Files starting with "R"

Identifier	File	Record-Like Type
ReadBytes	NoDaveComponent	TNoDave
ReadBytes	NoDaveComponent	TNoDave
Register	NoDaveComponent	

VIII.20 Index of Identifiers and Files starting with "S"

Identifier	File	Record-Like Type
SetActive	NoDaveComponent	TNoDave
SetArea	NoDaveComponent	TNoDave
SetBufLen	NoDaveComponent	TNoDave
SetBufOffs	NoDaveComponent	TNoDave
SetComPort	NoDaveComponent	TNoDave
SetCpuRack	NoDaveComponent	TNoDave
SetCpuSlot	NoDaveComponent	TNoDave
SetDBNumber	NoDaveComponent	TNoDave
SetDebugOptions	NoDaveComponent	TNoDave
SetInterval	NoDaveComponent	TNoDave
SetIntfName	NoDaveComponent	TNoDave
SetIntfTimeout	NoDaveComponent	TNoDave
SetIPAddress	NoDaveComponent	TNoDave
SetIPPort	NoDaveComponent	TNoDave
SetMPILocal	NoDaveComponent	TNoDave
SetMPIRemote	NoDaveComponent	TNoDave
SetMPISpeed	NoDaveComponent	TNoDave
SetProtocol	NoDaveComponent	TNoDave
Swap16	NoDaveComponent	TNoDave
Swap32	NoDaveComponent	TNoDave

VIII.21 Index of Identifiers and Files starting with "T"

Identifier	File	Record-Like Type
TNoDave	NoDaveComponent	
TNoDaveArea	NoDaveComponent	
TNoDaveConnectThread	NoDaveComponent	
TNoDaveDebugOption	NoDaveComponent	
TNoDaveDebugOptions	NoDaveComponent	
TNoDaveOnErrorEvent	NoDaveComponent	
TNoDaveProtocol	NoDaveComponent	
TNoDaveReachablePartnersMPI	NoDaveComponent	
TNoDaveReadThread	NoDaveComponent	
TNoDaveSpeed	NoDaveComponent	

VIII.22 Index of Identifiers and Files starting with "U"

Identifier	File	Record-Like Type
Unlock	NoDaveComponent	TNoDave

VIII.23 Index of Identifiers and Files starting with "V"

Identifier	File	Record-Like Type

VIII.24 Index of Identifiers and Files starting with "W"

Identifier	File	Record-Like Type
WriteBit	NoDaveComponent	TNoDave
WriteBit	NoDaveComponent	TNoDave
WriteByte	NoDaveComponent	TNoDave
WriteBytes	NoDaveComponent	TNoDave
WriteBytes	NoDaveComponent	TNoDave
WriteDInt	NoDaveComponent	TNoDave
WriteDWord	NoDaveComponent	TNoDave
WriteFloat	NoDaveComponent	TNoDave
WriteInt	NoDaveComponent	TNoDave
WriteWord	NoDaveComponent	TNoDave

VIII.25 Index of Identifiers and Files starting with "X"

Identifier	File	Record-Like Type

VIII.26 Index of Identifiers and Files starting with "Y"

Identifier	File	Record-Like Type

VIII.27 Index of Identifiers and Files starting with "Z"

Identifier	File	Record-Like Type

VIII.28 Index of Identifiers and Files starting with "_"

VIII.28 Index of Identifiers and Files starting with "_"

Identifier	File	Record-Like Type
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VIII.29 Legend

«» = deprecated

«» = library specific

«» = platform specific

* = unit implementation

* = unit interface

* = private

* = protected

* = public

* = published

* = automated

* = read-only

÷ = abstract