PlcTime Class

Namespace: IPS7Lnk.Advanced
Assemblies: IPS7LnkNet.Advanced.dll

Represents a TimeSpan value (in PLC a TIME) its value defines an time interval.

C#

```
public class PlcTime : PlcValue<TimeSpan>, IPlcValue<TimeSpan>, IPlcValue, IPlcSymbol,
IPlcEntity, IPlcStatusProvider, IPlcRelocatable<IPlcValue>, IPlcRelocatable,
ISupportInitialize
```

Inheritance Object › PlcValue<TimeSpan> › PlcTime

Implements IPlcValue<TimeSpan>, IPlcValue, IPlcSymbol, IPlcEntity, IPlcStatusProvider, IPlcRelocatable<IPlcValue>, IPlcRelocatable, ISupportInitialize

Remarks

While a PLC value of this type represents a TimeSpan value, all PLC operations performed using this class are done using the DWord. A PLC developer knows a value of this type as TIME. The time interval of this type typically supports a negative number of days, but because of TimeSpan does not support a negative number of days a negative number will be changed into a positive one by this implementation.

Constructors

Name	Description
PlcTime(PlcIdentity)	Initializes a new instance of the PlcTime class using the specified `identity`
PlcTime(PlcIdentity, PlcName)	Initializes a new instance of the PlcTime class using the specified `identity` and `name`.
PlcTime(PlcIdentity, PlcName, TimeSpan)	Initializes a new instance of the PlcTime class using the specified `identity`, `name` and `value`.
PlcTime(PlcIdentity, TimeSpan)	Initializes a new instance of the PlcTime class using the specified `identity` and `value`.
PlcTime(PlcTimeType)	Initializes a new instance of the PlcTime class using the specified `type`
PlcTime(PlcTimeType, PlcName)	Initializes a new instance of the PlcTime class using the specified `type` and `name`.
PlcTime(PlcTimeType, PlcName, TimeSpan)	Initializes a new instance of the PlcTime class using the specified `type`, `name` and `value`.
PlcTime(PlcTimeType, TimeSpan)	Initializes a new instance of the PlcTime class using the specified `type` and `value`.

Fields

Name	Description
MaxValue	Represents the largest possible value of a PlcTime.
MinValue	Represents the smallest possible value of a PlcTime.

Properties

Name	Description
Value	Gets or sets the value assigned to the PLC value.

Methods

Name	Description
GetValueCore(PlcDeviceConnection)	Retrieves the current value of the PLC value from a IPlcDevice using the `connection` specified.
IsValidValue(Object)	Determines whether the provided value is accepted for the type of PLC value through basic type checking and also potentially if it is within the allowed range of value for that type.
RelocateCore(PlcAddress)	Relocates the value to the `address` specified.
SetValueCore(PlcDeviceConnection, TimeSpan)	Stores the `value` in the IPlcDevice assigned to the `connection` specified.

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