PlcUInt32Array Class

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

Represents a PLC array which addresses an unique data entry stored within a programmable logic controller (PLC) its values are 32-bit unsigned integer values (UInt32).

C#

```
[CLSCompliant(false)]
public class PlcUInt32Array : PlcArray<uint, PlcUInt32>, IPlcArray<uint, PlcUInt32>,
IPlcValue<uint[]>, IPlcArray, IPlcValue, IPlcSymbol, IPlcEntity, IPlcStatusProvider,
IPlcRelocatable<IPlcValue>, IPlcRelocatable, ISupportInitialize, IEnumerable<uint>,
IEnumerable
```

Inheritance Object › PlcValue<UInt32> › PlcArray<UInt32, PlcUInt32> › PlcUInt32Array

Attributes CLSCompliantAttribute

Implements IPlcArray<UInt32, PlcUInt32>, IPlcValue<UInt32>, IPlcArray, IPlcValue, IPlcSymbol, IPlcEntity, IPlcStatusProvider, IPlcRelocatable<IPlcValue>, IPlcRelocatable, ISupportInitialize, IEnumerable<UInt32>, IEnumerable

Remarks

While a PLC array of this type represents an array of UInt32 values, all PLC operations performed using this class are done using the DWord. A PLC developer knows an array of this type as an ARRAY OF DWORD.

Constructors

Name	Description
PlcUInt32Array(PlcIdentity, Int32)	Initializes a new instance of the PlcUInt32Array class using the specified `identity` and `length`.
PlcUInt32Array(PlcIdentity, PlcName, Int32)	Initializes a new instance of the PlcUInt32Array class using the specified `identity`, `name` and `length`.
PlcUInt32Array(PlcIdentity, PlcName, UInt32)	Initializes a new instance of the PlcUInt32Array class using the specified `identity`, `name` and `values`.
PlcUInt32Array(PlcIdentity, UInt32)	Initializes a new instance of the PlcUInt32Array class using the specified `identity` and `values`.
PlcUInt32Array(PlcUInt32ArrayType)	Initializes a new instance of the PlcUInt32Array class using the specified `type`.
PlcUInt32Array(PlcUInt32ArrayType, PlcName, UInt32)	Initializes a new instance of the PlcUInt32Array class using the specified `type`, `name` and `values`.
PlcUInt32Array(PlcUInt32ArrayType, UInt32)	Initializes a new instance of the PlcUInt32Array class using the specified `type` and `values`.

Methods

Name	Description
GetElementCore(Int32)	Retrieves the PlcUInt32 at the specified index.
GetValueCore(PlcDeviceConnection)	Retrieves the current value of the PLC value from a IPlcDevice using the `connection` specified.
RelocateCore(PlcAddress)	Relocates the value to the `address` specified.
SetValueCore(PlcDeviceConnection, UInt32)	Stores the `value` in the IPlcDevice assigned to the `connection` specified.

Table of Contents