IPlcValue Interface

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

Represents a value stored within a programmable logic controller (PLC).

C#

```
public interface IPlcValue : IPlcSymbol, IPlcEntity, IPlcStatusProvider,
IPlcRelocatable<IPlcValue>, IPlcRelocatable, ISupportInitialize
```

Implements IPlcSymbol, IPlcEntity, IPlcStatusProvider, IPlcRelocatable<Relocate>(System), IPlcRelocatable<Relocate>(Int32, System), IPlcRelocatable<Relocate>(Int32, Int32, System), IPlcRelocatable<Relocate>(Advanced), ISupportInitialize

Events

Name	Description
Changed	Occurs when the value of the Value property has changed.

Properties

Name	Description
Description	Gets or sets more meaningful information about the symbol and its usage than only using the Name property. (Inherited from IPlcSymbol)
Name	Gets the name of the symbol through that PLC data can be accessed. (Inherited from IPlcSymbol)
Status	Gets the status information provided by the software driver. (Inherited from IPlcStatusProvider)
Tag	Gets or sets the object that contains additional user data about the value.
Type	Gets the PLC type information associated with the entity. (Inherited from IPlcEntity)
Value	Gets or sets the value assigned to the PLC value.

Methods

Name	Description
GetValue(IPlcDevice)	Retrieves the current value of the PLC value from the `device` specified.
GetValue(PlcDeviceConnection)	Retrieves the current value of the PLC value from a IPlcDevice using the `connection` specified.
IsValidType(Object)	Determines whether a specified value is acceptable for this IPlcValue.
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.
SetValue(IPlcDevice)	Stores the Value in the `device` specified.

Name	Description
SetValue(IPlcDevice, Object)	Stores the `value` in the `device` specified.
SetValue(PlcDeviceConnection)	Stores the Value in the IPlcDevice assigned to the `connection` specified.
SetValue(PlcDeviceConnection, Object)	Stores the `value` in the IPlcDevice assigned to the `connection` specified.
ValidateValue(Object)	Validates the specified `value` whether it can be assigned to this IPlcValue.

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