

PlcUInt16 Members

Namespace: IPS7Lnk.Advanced

Assemblies: IPS7LnkNet.Advanced.dll, IPS7LnkNet.Advanced.dll

The [PlcUInt16](#) type exposes the following members.

Constructors

PlcUInt16(PlcIdentity)

Initializes a new instance of the [PlcUInt16](#) class using the specified [identity](#)

C#

```
public PlcUInt16(PlcIdentity identity)
```

Parameters

[identity](#) [PlcIdentity](#)

The [PlcIdentity](#) of the new [PlcUInt16](#) to which the PLC value belongs.

Exceptions

[ArgumentException](#)

The [identity](#) does not refer to the [Word](#).

[ArgumentNullException](#)

The [identity](#) is a null reference (Nothing in Visual Basic).

PlcUInt16(PlcIdentity, PlcName)

Initializes a new instance of the [PlcUInt16](#) class using the specified [identity](#) and [name](#).

C#

```
public PlcUInt16(PlcIdentity identity, PlcName name)
```

Parameters

[identity](#) [PlcIdentity](#)

The [PlcIdentity](#) of the new [PlcUInt16](#) to which the PLC value belongs.

[name](#) [PlcName](#)

The name of the value.

Exceptions

ArgumentException

The **identity** does not refer to the **Word**.

ArgumentNullException

The **identity** or **name** is a null reference (Nothing in Visual Basic).

PlcUInt16(PlcIdentity, PlcName, UInt16)

Initializes a new instance of the **PlcUInt16** class using the specified **identity**, **name** and **value**.

C#

```
public PlcUInt16(PlcIdentity identity, PlcName name, ushort value)
```

Parameters

identity **PlcIdentity**

The **PlcIdentity** of the new **PlcUInt16** to which the PLC value belongs.

name **PlcName**

The name of the value.

value **UInt16**

The initial value of the new **PlcUInt16**.

Exceptions

ArgumentException

The **identity** does not refer to the **Word**.

ArgumentNullException

The **identity** or **name** is a null reference (Nothing in Visual Basic).

PlcUInt16(PlcIdentity, UInt16)

Initializes a new instance of the **PlcUInt16** class using the specified **identity** and **value**.

C#

```
public PlcUInt16(PlcIdentity identity, ushort value)
```

Parameters

identity **PlcIdentity**

The **PlcIdentity** of the new **PlcUInt16** to which the PLC value belongs.

value [UInt16](#)

The initial value of the new [PlcUInt16](#).

Exceptions

[ArgumentException](#)

The [identity](#) does not refer to the [Word](#).

[ArgumentNullException](#)

The [identity](#) is a null reference (Nothing in Visual Basic).

PlcUInt16(PlcUInt16Type)

Initializes a new instance of the [PlcUInt16](#) class using the specified [type](#)

C#

```
public PlcUInt16(PlcUInt16Type type)
```

Parameters

[type](#) [PlcUInt16Type](#)

The [PlcUInt16Type](#) of the new [PlcUInt16](#) to which the PLC value belongs.

Exceptions

[ArgumentNullException](#)

The [type](#) is a null reference (Nothing in Visual Basic).

PlcUInt16(PlcUInt16Type, PlcName)

Initializes a new instance of the [PlcUInt16](#) class using the specified [type](#) and [name](#).

C#

```
public PlcUInt16(PlcUInt16Type type, PlcName name)
```

Parameters

[type](#) [PlcUInt16Type](#)

The [PlcUInt16Type](#) of the new [PlcUInt16](#) to which the PLC value belongs.

[name](#) [PlcName](#)

The name of the value.

Exceptions

ArgumentNullException

The **type** or **name** is a null reference (Nothing in Visual Basic).

PlcUInt16(PlcUInt16Type, PlcName, UInt16)

Initializes a new instance of the [PlcUInt16](#) class using the specified **type**, **name** and **value**.

C#

```
public PlcUInt16(PlcUInt16Type type, PlcName name, ushort value)
```

Parameters

type [PlcUInt16Type](#)

The [PlcUInt16Type](#) of the new [PlcUInt16](#) to which the PLC value belongs.

name [PlcName](#)

The name of the value.

value [UInt16](#)

The initial value of the new [PlcUInt16](#).

Exceptions

[ArgumentNullException](#)

The **type** or **name** is a null reference (Nothing in Visual Basic).

PlcUInt16(PlcUInt16Type, UInt16)

Initializes a new instance of the [PlcUInt16](#) class using the specified **type** and **value**.

C#

```
public PlcUInt16(PlcUInt16Type type, ushort value)
```

Parameters

type [PlcUInt16Type](#)

The [PlcUInt16Type](#) of the new [PlcUInt16](#) to which the PLC value belongs.

value [UInt16](#)

The initial value of the new [PlcUInt16](#).

Exceptions

[ArgumentNullException](#)

The `type` is a null reference (Nothing in Visual Basic).

Methods

GetValueCore(PlcDeviceConnection)

Retrieves the current value of the PLC value from a `IPlcDevice` using the `connection` specified.

C#

```
protected override ushort GetValueCore(PlcDeviceConnection connection)
```

Parameters

`connection` `PlcDeviceConnection`

The `PlcDeviceConnection` from that the data is to be retrieved.

Returns

`UInt16`

The current value of the PLC value.

Exceptions

`InvalidOperationException`

The `connection` is in `Faulted` state and cannot longer be opened.

`ObjectDisposedException`

The `connection` has been disposed of.

RelocateCore(PlcAddress)

Relocates the value to the `address` specified.

C#

```
protected override IPlcValue RelocateCore(PlcAddress address)
```

Parameters

`address` `PlcAddress`

The `PlcAddress` to that the value is to be relocated.

Returns

IPlcValue

A new instance of the same type as this PLC value instance relocated to the **address** specified.

SetValueCore(PlcDeviceConnection, UInt16)

Stores the **value** in the **IPlcDevice** assigned to the **connection** specified.

C#

```
protected override void SetValueCore(PlcDeviceConnection connection, ushort value)
```

Parameters

connection **PlcDeviceConnection**

The **PlcDeviceConnection** to use to store the **value**.

value **UInt16**

The value to be stored.

Exceptions

InvalidOperationException

The **connection** is in **Faulted** state and cannot longer be opened.

ObjectDisposedException

The **connection** has been disposed of.

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