PlcDeviceConnectionChannel Class

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

Represents an abstract based class to define an immutable low level access layer used by PlcDeviceConnection objects to perform the necessary device operations.

C#

```csharp
public abstract class PlcDeviceConnectionChannel : IDisposable
```

Inheritance Object › PlcDeviceConnectionChannel

Implements IDisposable

Constructors

Name	Description
PlcDeviceConnectionChannel(PlcDeviceConnection)	Initializes a new instance of the PlcDeviceConnectionChannel class using the specified `connection`.

Properties

Name	Description
Address	Gets the IP address of the endpoint used.
BreakDetectionTimeout	Gets the time that is used to detect a connection break.
ConnectTimeout	Gets the wait time before terminating the attempt to establish a connection.
IsConnected	When implemented in a derived class, gets a value indicating whether the connection has been completly established to the device.
LocalTSAP	Gets the address of the local transport service access point used when communicating with the PLC device.
Rack	Gets the rack number of the endpoint used.
ReceiveTimeout	Gets the wait time before terminating the attempt to receive data.
RemoteTSAP	Gets or sets the address of the remote transport service access point used when communicating with the PLC device.
Slot	Gets the slot number of the endpoint used.
SyncRoot	Gets an object that can be used to synchronize access to the PlcDeviceConnectionChannel.
TransmitTimeout	Gets the wait time before terminating the attempt to transmit data.
UseBreakDetection	Gets a value indicating whether a connection break detection is to be used.

Methods

Name	Description
Close	Closes an established connection to a device.

Name	Description
CloseCore	When implemented in a derived class, closes an established connection to a device.
Connect	Fully establishes a connection to a device.
ConnectCore	When implemented in a derived class, fully establishes a connection to a device.
DenyIfIsDisposed	Verifies whether the channel has been disposed of.
Dispose	Releases all resources used by the PlcDeviceConnectionChannel.
Dispose(Boolean)	Releases the unmanaged resources used by the PlcDeviceConnectionChannel and optionally releases the managed resources.
Finalize	Finalizes an instance of the PlcDeviceConnectionChannel class.
HasConfigurationOf(PlcDeviceConnection)	Evaluates the setup of the `connection` specified to determine whether the configuration of this PlcDeviceConnectionChannel matches with the settings of the channel.
HasConfigurationOfCore(PlcDeviceConnection)	Performs additional custom evaluation of the setup of the `connection` specified to determine whether the configuration of a derivat of the PlcDeviceConnectionChannel matches with the settings of the channel.
Open	Establishes a connection to a device.
OpenCore	When implemented in a derived class, establishes a connection to a device.

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