

McsUsbNet.dll Version 5.1.21

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1 McsUsbNet.dll for MCS USB devices

1.1 Introduction

This DLL provides the .NET interface to MCS devices

The most important options are accessing our stimulator and data acquisition devices:

- STG200x & STG400x STimulus Generator
- · Data ACQuisition (DACQ) Devices

See here for a list of our other devices: Device Classes.

And here for a list of function classes addressing groups of features that might be shared between different devices: Function Classes.

1.2 System requirements

The DLL can be used with any .NET compatible language.

The DLL needs the .NET Framework 4.7.2.

It requires the Microsoft Visual C++ Redistributable for Visual Studio 2019 to be installed.

It also requires the **USB driver** to be installed.

The simplest way to achieve this is to install the latest **Multi Channel Experimenter** setup (will install 64bit redistributable).

All examples assume that the Mcs.Usb namespace is loaded:

```
using namespace Mcs.Usb;
```

Include the file McsUsbNet.dll into the references of your project.

1.3 Connecting to an MCS device

A connection to a DAQ device is established by Mcs.Usb.CMcsUsbNet.Connect. When this function is called without argument, the first DAQ device found on the USB bus is used:

```
CMcsUsbNet device = new CMcsUsbNet();
device.Connect();
```

When more than one DAQ device of the specific type is connected, you can use the Mcs.Usb.CMcsUsbListNet class to get a list of available devices:

```
CMcsUsbListNet usblist = new CMcsUsbListNet(DeviceEnumNet.MCS_DEVICE_USB);
var entry = usblist.GetUsbListEntry((uint)0);
CMcsUsbNet device = new CMcsUsbNet();
device.Connect(entry);
```

After you are finished with the device, you can disconnect the device object from the device by:

```
device.Disonnect():
```

2 Device Classes

- For FluidControl device see MCS FluidControl
- For SW2TO64 device see MCS-USB-Sw2to64
- For TCx device see Mcs.Usb.CTcxDeviceNet

2.1 The MCS FluidControl Device

2.1.1 Introduction

The FluidControl Device can control up to 24 valves. The nominal voltage is 24V.

8 TTL level digital output ports are available and 8 TTL inputs can be read in.

The device has 8 ADC inputs with a rage from 0V to 3.3V.

2.1.2 Access to the FluidControl device

For connecting to a FluidControl device see Connecting to an MCS device.*

```
CFluidControlDevice* m_dacq;
m_fluidcontrol = new CFluidControlDevice;
status = m_fluidcontrol->Connect();
```

The valves are controlled with the CFluidControlDevice::SetValve call. The argument given is a bit pattern of all valves which should be open.

The digital outputs can be controlled with the CFluidControlDevice::SetDigout call. Again, a bit pattern of all digital output pins which should be set to a logic high level is given as an argument.

The current state of the valves and the digital outputs can be read back with the CFluidControlDevice::GetValve and CFluidControlDevice::GetDigout

The command to read an ADC-Channel is CFluidControlDevice::GetAdc. Here the channelnummer which should be read in is given as an argument and the return value is the current Adc level.

The state of the digital inputs is read with the CFluidControlDevice::GetDigin call. Here the return value is the bit pattern of the digital inputs.

The connection to the device is closed with the CFluidControlDevice::Disconnect call.

2.2 MCS-USB-Sw2to64 device

The class Mcs.Usb.CSw2to64DeviceNet controls the setting of the switches in the MCS-USB-Sw2to64 device.

First construct an object of the class:

```
CSw2to64DeviceNet device = new CSw2to64DeviceNet();
```

For connecting to an MCS-USB-Sw2to64 device see Connecting to an MCS device.

To get the number of channels the device handles:

```
int number = device.GetNumber()
```

Set all channel switches at once:

```
byte z = 1;
byte[] pattern = new byte[number];
for(int i = 0;i < number;i++)
{
   pattern[i] = z; // pattern you want to switch this channel to
}
device.SetChannels(pattern);</pre>
```

Get all channel switches at once:

```
byte[] pattern = device.GetChannels();
```

Set one channel switch:

```
ushort index = 10;
byte pattern = 1;
device.SetChannel(index, pattern)
```

Get one channel switch:

```
ushort index = 10;
byte pattern = device.GetChannel(index);
```

3 Function Classes

- Mcs.Usb.CCMOSMea_FunctionNet
- Mcs.Usb.CDacCalibrationFunctionNet
- Mcs.Usb.CDigOutStimulatorFunctionNet
- Mcs.Usb.CGrapheneFunctionNet
- Mcs.Usb.CIntanMea_FunctionNet
- Mcs.Usb.CInterfaceboard2FunctionNet
- Mcs.Usb.CInterfaceboardFunctionNet
- Mcs.Usb.CMcsBus_MotorControlNet
- Mcs.Usb.CMcsBus_VoltageModeNet
- Mcs.Usb.CMcsBus_AxisParametersNet
- Mcs.Usb.CMcsBus_SensorNet
- Mcs.Usb.CMcsBus_TempSensorNet
- Mcs.Usb.CMcsBus_ExtensionNet
- Mcs.Usb.CMcsBus_FYIExtensionNet
- Mcs.Usb.CMcsUsbDeviceStatePushFunctionNet
- Mcs.Usb.CMEA2100x256FunctionNet

- Mcs.Usb.CMeaAudioFunctionNet
- Mcs.Usb.CMeaDigitalDataFunctionNet
- · Mcs.Usb.CMeaFeedbackFunctionNet
- · Mcs.Usb.CMeFunctionNet
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- Mcs.Usb.CStimulusFunctionNet
- Mcs.Usb.CTEERFunctionNet
- Mcs.Usb.CW2100 FunctionNet
- Mcs.Usb.CW2100_StimulatorFunctionNet
- Mcs.Usb.CWarnerUssingFunctionNet
- Mcs.Usb.CWarnerValveControllerDeviceTesterFunctionNet
- Mcs.Usb.CWClassicFunctionNet
- Mcs.Usb.CWirelessBaseFunctionNet

4 Data ACQuisition (DACQ) Devices

There are different device types of (MEA) data acquisition (DACQ) devices. All of them are supported by this class.

This library does **not** support the writing of the MCD (MC_Rack), MSRD (Multi Channel Experimenter) or HDF5 file format!

The class Mcs.Usb.CMeaDeviceNet is the base class for DACQ devices.

The base class Mcs.Usb.CMeaDeviceNet constructs actually the underlying classes for USB-MEA devices (Mcs.Usb.CMeaUSBDeviceNet).

```
.
CMeaDeviceNet device = new CMeaDeviceNet(McsBusTypeEnumNet.MCS_USB_BUS, OnChannelData, OnError);
```

For connecting to a DACQ device see Connecting to an MCS device.

Get the number of available analog hardware channels and set the number of channels to the maximum.

```
int hwchannels;
device.HWInfo().GetNumberOfHWADCChannels(out hwchannels);
device.SetNumberOfChannels(hwchannels);
int samplingrate = 1000;
device.SetSamplerate(samplingrate, 1, 0);
device.EnableDigitalIn(true, 0);
```

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Get the layout to know how the data look like that you receive

```
int ana, digi, che, tim, block;
device.GetChannelLayout(out ana, out digi, out che, out tim, out block);
```

For the Mcs.Usb.OnChannelData callback function you have to provide a definition of the channels you want to receive.

```
bool[] selChannels = new bool[block];
for (int i = 0; i < block; i++)
{
    selChannels[i] = true; // With true channel i is selected
    // selChannels[i] = false; // With false the channel i is deselected
}
channelblocksize = samplingrate / 10;
// queue size and threshold should be selected carefully
device.SetSelectedChannels(selChannels, 10 * channelblocksize, channelblocksize);</pre>
```

The Mcs.Usb.OnChannelData callback function gets a callback for each channelblock that is defined. In this example a callback for each channel.

```
void OnChannelData(CMcsUsbDacqNet d, int cbHandle, int numSamples)
{
   int size_ret;
   ushort[] channeldata = device.ChannelBlock_ReadFramesUI16(CbHandle, numSamples, out size_ret);
}
void OnError(String msg, int info)
{
   MessageBox.Show("Mea Device Error: " + msg);
}
```

see MEA Recording in the Examples directory.

5 The MCS Robo Device

5.1 Introduction

Up to now two MCS devices exist that base on the Robo platform.

- The MCS Roboinject device is controlled by the Mcs.Usb.CRobolnjectDeviceNet class.
- The MCS Roboocyte2 device is controlled by the Mcs.Usb.CRoboocyte2DeviceNet class.

Both classes are derived from Mcs.Usb.CRoboDeviceNet

6 STG200x & STG400x STimulus Generator

6.1 Introduction

The STG200x & STG400x Series Stimulus Generators have two distinct modes of operation, the Download mode and the Streaming mode.

6.2 Download mode

The Download mode is the "classic" mode of operation, as used by the MC Stimulus software. In this mode, one or multiple waveforms are defined in PC memory and downloaded to the STG. The waveforms are stored in STG device onboard memory and can be sent to the analog and sync outputs once or multiple times. The STG can operate independently from the PC (without computer connection) after the download. Output is triggered either by the front panel start/stop button, the digital trigger inputs or under software control.

In the Download mode, there are up to eight independent triggers available (depending on the device). The user can assign each of the analog outputs and sync (digital) outputs to any of the triggers.

The analog output waveform is stored sample by sample in the STG memory. To reduce memory usage, this data can be compressed: whenever a given output value is to be held for more than one sample period, it has only to be given once. The user can define the number of sample periods for that a pattern should remain active. Compression is done for each channel independently of the others, thus the algorithm to compress the data is very easy to implement.

A new feature of the Download mode is the segmentation of the STG memory. The onboard memory can be devided into up to 100 segments. Each segment can hold its own waveform pattern. Under software control, the user can switch between the defined segments within milliseconds. Another option is to use the four trigger inputs to select between four predefined segments. This option is accessible from the MC_Stimulus Software as the "Multi-File mode", and can start each of up to four defined waveforms within microseconds. This feature allows a predefinied flexible response (feedback) to recorded data.

Mcs.Usb.CStg200xDownloadNet is the class for using the STG in download mode.

6.2.1 Memory Layout and Trigger Setup

The class to be used for the Download mode is Mcs.Usb.CStg200xDownloadNet, which is derived from Mcs.Usb.CStg200xBasicNet. You can add a poll handler delegate (Mcs.Usb.OnStg200xPollStatus) to the constructor Mcs.Usb.CStg200xDownloadNet.

For connecting to an STG see Connecting to an MCS device.

To use the Download mode, the memory layout of the STG200x can be set up, if the default is not sufficient. The total amount of memory available in the STG is obtained by the Mcs.Usb.CStg200xDownloadNet.GetTotalMemory call. With Mcs.Usb.CStg200xDownloadNet.SendSegmentDefine the segment sizes are assigned.

```
uint32_t memory = device.GetTotalMemory(); // obtain total memory available
uint[] segmentmemory = new uint[2]; // each segments has half of total memory
segmentmemory[0] = memory / 2;
segmentmemory[1] = memory / 2;
device.SendSegmentDefine(segmentmemory);// setup the STG
```

Next, for each segment, one has to assign the amount of memory to be used for each channel and sync output. This is done by Mcs.Usb.CStg200xDownloadBasicNet.SetCapacity. Its arguments contain a list of memory sizes, with one entry per channel and one entry per sync output. Again, the total memory assigned to the channels and sync outputs must not exceed the memory assigned to the segment.

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}

Before the STG can start, the trigger has to be configured. This is done by the Mcs.Usb.CStg200xDownloadNet.SetupTrigger call. Its arguments are a list of channelmaps, syncoutmaps and repeats, one for each of the four available triggers. channelmap is a bitmap, each bit representing one of the available channels. To assign channel 1 and syncout 1 to trigger 1 and channel 3 to trigger 2 use:

```
uint32_t TriggerInputs = device.GetNumberOfTriggerInputs();
uint[] channelmap = new uint[TriggerInputs];
uint[] syncoutmap = new uint[TriggerInputs];
uint[] repeat = new uint[TriggerInputs];
for (int i = 0; i < TriggerInputs; i++)
{
    channelmap[i] = 0;
    syncoutmap[i] = 0;
    repeat[i] = 0;
}
// Trigger 0
    channelmap[0] = 1; // Channel 1
    syncoutmap[0] = 1; // Syncout 1
    repeat[0] = 0; // forever
// Trigger 1
    channelmap[1] = 4; // Channel 3
    device.SetupTrigger(channelmap, syncoutmap, repeat);</pre>
```

For the STG400x series you have to set the output mode of the channels. Mcs.Usb.CStg200xDownloadNet.SetVoltageMode interprets the values as voltages. Mcs.Usb.CStg200xDownloadNet.SetCurrentMode as currents.

```
// Only meaningfull for STG400x
device.SetVoltageMode();
```

For each segment, data can be sent to each of the defined channels and sync outputs using the Mcs.Usb.CStg200xDownloadNet.SendChannelData and Mcs.Usb.CStg200xDownloadNet.SendSyncData calls. channeldata and syncdata are a list of analog and digital samples as a list of two byte values (unsigned short). Multiple calls to Mcs.Usb.CStg200xDownloadNet.SendSyncData to the same channel append data to that channel.

If the Multi-File mode of the STG is enabled using the Mcs.Usb.CStg200xDownloadNet.EnableMultiFileMode call, the four trigger inputs are used to switch between four segments. A hardware trigger signal (TTL) on trigger input 1 selects the first segment and starts all pulses in this segment. Thus with the Multi-File mode, one can predefine four stimulus patterns and switch between them without a connection to the PC.

The STG200x series has an analog resolution of 13 bits, thus the analog data contains the information in bits 0 to 12 of each sample. Bits 13 to 15 have to be 0.

```
int DACResolution = device.GetDACResolution();
// Data for Channel 0
    device.ClearChannelData(0);
    double factor = 0.1;
    const int 1 = 1000;
   ushort[] pData = new ushort[1];
        Uint64_t[] tData = new Uint64_t[1];
        for (int i = 0; i < 1; i++)
             // calculate Sin-Wave
            double sin = factor * (Math.Pow(2, DACResolution - 1) - 1.0) *
                Math.Sin(2.0 * (double)i * Math.PI / (double)1);
             // calculate sign
            pData[i] = sin >= 0 ? (ushort)sin : (ushort)((int)Math.Abs(sin) +
                 (int)Math.Pow(2, DACResolution - 1));
            tData[i] = (Uint64_t)20; // duration in \mus
        device. SendChannelData(0, pData, tData);
// Data for Channel 3
    device.ClearChannelData(2);
    double factor = 0.1;
    const int 1 = 700;
    // without compression
    ushort[] pData = new ushort[1];
    Uint64_t[] tData = new Uint64_t[1];
    for (int i = 0; i < 1; i++)
        // calculate Sin-Wave
        double sin = factor * (Math.Pow(2, DACResolution - 1) - 1.0) *
           Math.Sin(2.0 * (double)i * Math.PI / (double)1);
```

Start the trigger by pushing the front button or by software

```
// Start Trigger 1 and 2
device.SendStart(1 + 2); // Trigger 1 und 2
```

see the StgDownloadExampleNet in the example directory.

6.3 Streaming mode

The other mode of operation is the Streaming mode. Here the analog output is sent to the STG device in "real time". The PC has to be connected to the STG all the time. The data that is sent to the analog output is downloaded from the PC to the STG on the fly.

The Streaming mode is useful for applications where flexible feedback is needed as well for applications where very long waveforms which are not repeated (such as white noise) are used.

The Streaming mode works by use of two ring buffers which hold data. One is in PC memory and managed by the DLL, and one is in on-board STG memory. Data is transferred from PC memory to the STG via the USB bus in time slices of one millisecond.

The user can define both the size of the ring buffer in DLL memory and in the STG memory. Once the Streaming mode is started, the STG request data from the PC. The data rate from PC to STG is variable and controlled by the STG. The STG request data from the PC at a rate to keep its internal ringbuffer at about half full.

It is the responsibility of the user to keep the ring buffer in the memory of the PC filled, so the DLL can supply sufficient data to the STG. To do so, the Windows DLL allows to define a "callback" function which is called whenever new data is needed, or more precise, as soon as the ring buffer in the memory of the PC falls below the user defined threshold.

Small buffers have the advantage of a low latency between data generation in the callback funtion and its output as a analog signal from the STG. However for low latency to work, the user-written callback function has to be fast and to produce a steady flow of data.

In the Streaming mode, all triggers are available as well. Each of the eight analog and sync outputs can be assigned to one of the triggers.

The output rate is user defined with a maximum of 50 kHz

Mcs.Usb.CStg200xStreamingNet is the class for using the STG in streaming mode.

6.3 Streaming mode 9

6.3.1 Memory Layout and Trigger Setup

With the constructor for Mcs.Usb.CStg200xStreamingNet.CStg200xStreamingNet, the name of the callback function for the data handler is provided. The data handler function is called automatically, whenever the STG needs new data. This data is first written to a ring buffer in the memory of the PC. The size for this ring buffer is defined as first argument in the constructor. The user provided delegate gets the trigger number which needs new data as argument

```
CStg200xStreamingNet device = new CStg200xStreamingNet(10000, dataHandler, errorHandler);
```

The callback funtion, which is defined in the constructor, is called whenever the STG needs new data for a trigger, or more precise, whenever the ring buffer in PC memory falls below the defined threshold.

The user can query the amount of space available for queuing by use of the Mcs.Usb.CStg200xStreamingNet. ← GetDataQueueSpace call. Its return value is the number of samples that can be send to the STG.

User code is required to fill an array analog and sync out data, sample by sample for up to the maximum number of samples as obtained by Mcs.Usb.CStg200xStreamingNet.GetDataQueueSpace or Mcs.Usb.CStg200xStreaming

Net.GetSyncoutQueueSpace.

The values for the analog outputs are 16 bits signed integers. The lower bits are trunctated according to the resolution of the STG. This behaviour is different to the behaviour in download mode.

Note: Compression as described in the download mode can NOT be used for the streaming mode.

The new data is sent to the STG by using the Mcs.Usb.CStg200xStreamingNet.EnqueueData call.

```
void dataHandler(uint32_t trigger)
    double factor = 1;
if (trigger == 0) // Callback for Trigger 1
          {// Handle Channel 1
               uint32_t channel = 0;
                    uint32 t space = device.GetDataOueueSpace(channel);
                    if (space < 1000)
                    short[] data = new short[1000];
                    for (int i = 0; i < 1000; i++)
                         // Calc Sin-Wave (16 bits) lower bits will be removed according resolution double sin = factor \star (Math.Pow(2, 16 - 1) - 1.0) \star Math.Sin(2.0 \star (double)i \star Math.PI / (double)1000);
                         data[i] = (short)sin;
                    uint32_t engueued = device.EngueueData(channel, data);
          {// Handle Channel 3
               uint32_t channel = 2;
               for (; ; )
                    uint32_t space = device.GetDataQueueSpace(channel);
                    if (space < 700)</pre>
                         break:
                    short[] data = new short[700];
                    for (int i = 0; i < 700; i++)
                         // Calc Sin-Wave (16 bits) lower bits will be removed according resolution double sin = factor * (Math.Pow(2, 16 - 1) - 1.0) * Math.Sin(2.0 * (double)i * Math.PI / (double)700);
                         data[i] = (short)sin;
                    uint32_t enqueued = device.EnqueueData(channel, data);
          {// Handle Syncout 1
               uint32_t channel = 0;
               for (; ; )
                    uint32_t space = device.GetSyncoutQueueSpace(channel);
                    if (space < 1000)</pre>
                         break:
                    ushort[] data = new ushort[1000];
                    for (int i = 0; i < 1000; i++)</pre>
```

For connecting to an STG device see Connecting to an MCS device.

With enabling or disabling the continuous mode it can be selected how the STG handles an "out of data" situation.

When Mcs.Usb.CStg200xStreamingNet.EnableContinousMode is used, the STG does not stop when it runs out of data, but it keeps running and sends a zero voltage to its outputs.

When Mcs.Usb.CStg200xStreamingNet.DisableContinousMode is used, the STG stops when it runs out of data. It has to be retriggered to resume the output.

```
device.EnableContinousMode();
```

Mcs.Usb.CStg200xStreamingNet.SetOutputRate is used to set the sampling rate. device.SetOutputRate(50000);

To use the Streaming mode, the memory layout of the STG has to be set up. To total amount of memory available in the STG is obtained by the Mcs.Usb.CStg200xStreamingNet.GetTotalMemory call.

This memory can be assigned to four ring buffers (one per trigger) which buffer the data received from the PC via USB cable. This is done with the CStg200xStreaming::SetCapacity call. The total amount of memory must not exceed the total memory size as obtained by Mcs.Usb.CStg200xStreamingNet.GetTotalMemory.

This internal ring buffer is crucial for proper operation of the Streaming mode. The size of the ring buffer determines the latency of the Streaming mode. The firmware of the STG requests data from the PC in order to keep the ring buffer about half full. Thus the average latency is:

```
latency = (ringbuffersize in bytes/4) / output rate
```

If the ring buffer size is too big, the latency of the STG might be too long. If the ring buffer size is too low, an overflow or underflow of data in the STG ringbuffer might occur, resulting in data jumps of the output signals or the "out of data" situation described erlier.

The following example divides the total memory equally amoung the four triggers:

Before the STG can start, the trigger has to be configured. This is done by the Mcs.Usb.CStg200xStreaming
Net.SetupTrigger call. Its arguments are a list of channelmaps, syncoutmaps, digoutmap, autostart and callback
_threshold, with one entry for each of the available triggers. channelmap is a bitmap, each bit representing one of the available channels. To assign channel 1 and 3 and syncout 1 to trigger 1 use:

```
uint32_t ntrigger = device.GetNumberOfTriggerInputs();  // obtain number of triggers in this STG
uint[] channelmap = new uint[ntrigger];
uint[] syncoutmap = new uint[ntrigger];
uint[] digoutmap = new uint[ntrigger];
uint[] autostart = new uint[ntrigger];
uint[] callback_threshold = new uint[ntrigger];
for (int i = 0; i < ntrigger; i++)
{
    channelmap[i] = 0;</pre>
```

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```
syncoutmap[i] = 0;
digoutmap[i] = 0;
autostart[i] = 0;
callback_threshold[i] = 0;
}
channelmap[0] = 0x1 + 0x4; // Channel 1 und Channel 3 to Trigger 1
syncoutmap[0] = 0x1; // Syncout 1 to Trigger 1
autostart[0] = 1;
callback_threshold[0] = 50; // 50% of buffer size
device.SetupTrigger(channelmap, syncoutmap, digoutmap, autostart, callback_threshold);
device.StartLoop();
System.Threading.Thread.Sleep(1000); // Give StartLoop some time
```

Start Trigger by pushing the front button or by Software

device.SendStart(1);

see the StgStreamingExampleNet in the example directory.

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7.1 Namespace List

Here is a list of all namespaces with brief descriptions:

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10 Namespace Documentation

10.1 Mcs Namespace Reference

Namespaces

• Usb

10.2 Mcs::Usb Namespace Reference

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- class CCMOSMea_FunctionNet
- class CCMOSMeaDeviceNet
- class CCreateFilterNet
- class ButterworthFilterLowPassNet
- class ButterworthFilterHighPassNet
- class BesselFilterLowPassNet
- class BesselFilterHighPassNet

- · class CDeviceGroupChannelInfoTemplateNet
- · class CDeviceGroupChannelInfoGenericNet
- · class CDeviceGroupChannelInfoNet
- class CDeviceGroupChannelInfoW2100Net
- class CDeviceGroupChannelInfoSCUNet
- class CDeviceGroupChannelInfoMEA2100 256Net
- class CDacqGroupChannelSelectionTemplateNet
- · class CDacqGroupChannelGenericSelectionNet
- · class CDacqGroupChannelSelectionNet
- class CW2100DacqGroupChannelSelectionNet
- class CSCUDacqGroupChannelSelectionNet
- class CMEA2100 256DacqGroupChannelSelectionNet
- · class CDacCalibrationFunctionNet
- · class CDigOutStimulatorFunctionNet

CDigOutStimulatorFunctionNet is the class of the DigOut stimulator function class.

class CExternDTesterDeviceNet

CExternDTesterDeviceNet is the class to access the ExternD Tester (Handheld Device Tester D)

class CGrapheneFunctionNet

CGrapheneFunctionNet is the class to control Graphene device functions

· class CInterfaceboard2FunctionNet

CInterfaceboard2FunctionNet is the class to control the Interfaceboard

class CInterfaceboardFunctionNet

CInterfaceboardFunctionNet is the class to control the Interfaceboard

class CLIH3DeviceNet

CLIH3DeviceNet is the class to access the HEKA LIH3 device.

class CMEA2100x256FunctionNet

CMEA2100x256FunctionNet is the class to control the MEA2100-256 device needs #include "Stg200xNet.h" to resolve documentation reference

class CMeaCleanDeviceNet

CMeaCleanDeviceNet is the class to access the MEA Clean device.

· class CMeaCoatDeviceNet

CMeaCoatDeviceNet is the class to access the MEA Coat device.

class CMultiBatteryChargerDeviceNet

CMultiBatteryChargerDeviceNet is the class to access the MBC-08 device.

· class CMultiwellCallbackFunctionNet

CMultiwellCallbackFunctionNet is the class to access the Multiwell-Mini-Stimulator

class CMultiwellDeviceNet

CMultiwellDeviceNet is the class to access the Multiwell device.

class CMultiwellOptoStimFunctionNet

CMultiwellOptoStimFunctionNet is the class to access the optical properties of the Multiwell Optostim device

- class CPedoterDeviceNet
- · class CPositionIIDeviceNet

CPositionIIDeviceNet is the class to control PositionII devices

class CPositionImpDeviceNet

CPositionImpDeviceNet is the class to access the Position/Imp devices

class CPPCFunctionNet

CPPCFunctionNet is the class to access the PPC (high precision Patch Peristalic patch Pump

class CPulseGeneratorFunctionNet

CPulseGeneratorFunctionNet is the class to control the pulse generator for video tracking

class CRFFunctionNet

CRFFunctionNet is the class to control RF devices

· class CSCUFunctionNet

CSCUFunctionNet is the class to control the SCU device

class CTEERFunctionNet

CTEERFunctionNet is the class to control the TEER device

· class CUsbDeviceConfigurationFunctionNet

CUsbDeviceConfigurationFunctionNet is the class to configure the USB firmware

· class CWarnerUssingDeviceNet

CWarnerUssingDeviceNet is the class to control the Ussing device

class CWarnerUssingFunctionNet

CWarnerUssingFunctionNet is the class to control the Ussing device

· class CWarnerValveControllerDeviceNet

CWarnerValveControllerDeviceNet is the class to access the Warner Valve Controller

class CWarnerValveControllerDeviceTesterFunctionNet

CWarnerValveControllerDeviceTesterFunctionNet is the class to access the functions for the Warner Valve Controller Device Tester

struct DeviceIdNet

Device Id.

- · class CFilterCoefficientsNet
- class CFilterConfigurationNet
- · class CFilterConfigurationRegisterNet
- class CFilterPropertyNet
- · class CFluidControlDeviceNet

CFluidControlDeviceNet is the class to control MCS FluidControl (FCB and FCX) device.

· class CGenericDevelopDeviceNet

CGenericDevelopDeviceNet is the class to use during development of a new device.

class CGilsonDeviceNet

CGilsonDeviceNet is the class to control a Gilson device.

- · class CIntanMea FunctionNet
- class CMcsBusNet
- · class CMcsBus MotorControlNet
- · class CMcsBus VoltageModeNet
- · class CMcsBus_AxisParametersNet
- · class CMcsBus SensorNet
- class CMcsBus TempSensorNet
- · class CMcsBus_ExtensionNet
- class CMcsBus_FYIExtensionNet
- class CSerialPortNet
- class usbSetupPacket_t
- class CMcsUsbDeviceStatePushFunctionNet
- class CMcsUsbDeviceStatePushNet
- · class CMcsUsbFactoryNet
- class CMcsUsbFunctionPointerContainer
- class CMcsUsbFunctionNet
- class CMcsUsbListEntryNet

McsUsbListEntryNet identifies a connected device.

class CMcsUsbListNet

Class to handle a list of connected MCS USB devices.

class CUsbExceptionNet

Exception class that is thrown in case of an USB error.

- class FirmwareDestinationNames
- · class DriverVersionNet

Class gives firmware versions of the device's firmware destinations.

class CMcsUsbPointerContainer

class CMcsUsbNet

Base class to handle MCS USB devices. All device classes are derived from this class. Functionality that is provided by all MCS devices is handled by this class.

- · class DigitalSourceGeneral
- · class DigitalSource
- · class StgStatusNet
- class CMeaAudioFunctionNet
- · class CMeaDeviceNet

Base class for MEA data acquisition devices.

· class CMeaUSBDeviceNet

Class for data acquisition via ME and MEA USB amplifiers

- · class CMeaDigitalDataFunctionNet
- · class CMeaFeedbackFunctionNet
- class CMealmpedanceDeviceNet
- class CMeaSwitchDeviceNet

The class to control the USB-MEA-Switch.

- class CMeFunctionNet
- class mkfilterNet
- · class CNF GenDeviceNet
- class COctoPotDeviceNet
- class COkuvisionStimulatorDeviceNet
- · class CPathIdentDeviceNet
- class CPeristalticPumpDeviceNet

CPeristalticPumpDeviceNet is the class to control a Persistaltic Pump.

- · class CPgaDeviceNet
- class CPPCDeviceNet
- · class CPPS DeviceNet
- class CPPS FunctionNet
- · class CProgramPressureCurveNet

CProgramPressureCurveNet is the class to program pressure curves

- · class CRadioControledDevicesNet
- · class CRetinaLedDeviceNet
- class CRobo_FYITemp_FunctionNet
- class CRobo_FYIProgram_FunctionNet
- class CRoboDacqNet
- class CHLADacqNet
- class CRoboDeviceNet

CRoboDeviceNet is the base class for all Robo platform based devices

- class CRoboStatorDeviceNet
- · class CRoboocyte2DeviceNet

CRoboocyte2DeviceNet is the class to control the MCS Roboocyte2 device

· class CRobolnjectDeviceNet

CRobolnjectDeviceNet is the to control the MCS Robolnject device

class CHiClampDeviceNet

CHiClampDeviceNet is the to control the MCS HiClamp device

class CEncapsulatorDeviceNet

CEncapsulatorDeviceNet is the to control the MCS HiClamp device

class CHLADeviceNet

CHLADeviceNet is the to control the MCS HLA device

· class CPPSDeviceNet

CPPS4plus1DeviceNet is the to control the MCS HLA device

• class CMeasureTableDeviceNet

CMeasureTableDeviceNet is the to control the MCS HLA device

class CFYIDeviceNet

CFYIDeviceNet is the class to control the MCS FYI device

class CPatchServerDeviceNet

CPatchServerDeviceNet is the class to control the MCS PatchServer device

- class CTEERMachineDeviceNet
- · class CRoboFluidDeviceNet
- class CSafeISDeviceNet
- · class CStg200xDownloadNet

Main class for the STG download mode This class implements the STG download mode interface.

· class CStg200xBasicNet

Base class for the Stg200x.

· class CStg200xDownloadBasicNet

CStg200xDownloadBasicNet is the base class to control the download mode of the MCS STG device.

- class CStimulusFunctionNet
- · class CSw2to64DeviceNet

The class to control the MCS-USB-Sw2to64 device.

· class CTcxDeviceNet

Class to control a Temperature Controller (TCX)

class CMcsUsbDacqNet

Base class for data acquisition devices.

- struct W2100 StimulusParametersNet
- class HeadStageIDType
- · class HeadStageIDTypeState
- · class HeadstageIDTypeObject
- class BatteryState
- class CW2100 StimulatorFunctionNet
- class CW2100 FunctionNet
- class CWClassicFunctionNet
- class CWirelessBaseFunctionNet

Enumerations

```
    enum class enCMosMeaChipType {

 unknown = 0,
 nMos16LV = 1,
 nMos32LV = 3,
 nMos36LN = 6.
 nMos64LN = 7

    enum class DeviceEnumNet {

 MCS_DEVICE_ANY,
 MCS_GENERIC_DEVELOPMENT_DEVICE,
 MCS_DEVICE_USB,
 MCS MCCARD DEVICE,
 MCS_STG_DEVICE,
 MCS_MC_STIMULUS_DEVICE,
 MCS MEAUSB DEVICE,
 MCS MEA DEVICE,
 MCS OCTOPOT DEVICE,
 MCS TERSENS DEVICE,
 MCS PGA DEVICE,
 MCS PCX DEVICE.
 MCS_TCX_DEVICE,
 MCS_FCX_DEVICE,
```

```
MCS_RETINA_LED_DEVICE,
 MCS MEA SWITCH DEVICE
 MCS_MEA_IMPEDANCE_DEVICE,
 MCS_CHANNELTEST_DEVICE,
 MCS_SW2TO64_DEVICE,
 MCS RETINA AMS DONGLE,
 MCS PATHIDENT DEVICE,
 MCS ROBO DEVICE,
 MCS ROBOOCYTE2 DEVICE,
 MCS ROBOINJECT DEVICE,
 MCS_HICLAMP_DEVICE,
 MCS_PATCHSERVER_DEVICE
 MCS_ENCAPSULATOR_DEVICE,
 MCS_MEASURETABLE_DEVICE,
 MCS_FYI_DEVICE,
 MCS_HLA_DEVICE
 MCS PPS DEVICE,
 MCS PPS5 DEVICE,
 MCS_OKUVISION_STIMULATOR_DEVICE,
 MCS_NF_GEN_DEVICE,
 MCS SAFEIS DEVICE,
 MCS PERISTALTIC PUMP DEVICE,
 MCS_EXTERN_BC_TESTER_DEVICE,
 MCS_EXTERN_D_TESTER_DEVICE,
 MCS SOFTWARE DONGLE DEVICE,
 MCS_MEA_CLEAN_DEVICE,
 MCS_MEA_COAT_DEVICE,
 MCS SMARTIMPLANT DEVICE,
 MCS MBC08 DEVICE.
 MCS PEDOTER DEVICE,
 MCS_PPC_DEVICE,
 WARNER_VALVE_CONTROL_DEVICE = 7000,
 WARNER USSING DEVICE,
 HEKA_LIH3_DEVICE = 8000,
 ALA_VC3_DEVICE = 9990,
 MCS_DEVICE_USB_CYPRESS = 9991 }
    Enumerates the group of MCS devices to connect to.

    enum class VendorldEnumNet {

 Any = -1,
 None = 0,
 MCS = MCS_VENDOR_ID,
 PCI = 0x10E8
 Cypress = CYPRESS_VENDOR_ID,
 ALA_VC3 = ALA_VC3_VENDOR_ID }
    Enumerates the group of MCS devices to connect to.

    enum class ProductIdEnumNet {

 Any = -1
 None = 0,
 ALA_VC3 = ALA_VC3_VENDOR_ID,
 Cypress_FX1 = CY_FX1_PRODUCT ID,
 Cypress_FX2 = CY_FX2_PRODUCT_ID,
 Cypress FX3 = CY FX3 PRODUCT ID
 MC Card = MCS PRODUCT ID MC CARD,
 Campden Ci4600EphysVideoDataIntegrator = MCS PRODUCT ID CAMPDEN CI4600EPHYS VIDEO↔
 DATA INTEGRATOR,
 HekaLIH30 = MCS PRODUCT ID HEKA LIH30,
 HekaEPC10Single = MCS PRODUCT ID HEKA EPC10 SINGLE,
 HekaEPC10Double = MCS_PRODUCT_ID_HEKA_EPC10_DOUBLE,
```

```
HekaEPC10Triple = MCS_PRODUCT_ID_HEKA_EPC10_TRIPLE,
HekaEPC10Quadro = MCS PRODUCT ID HEKA EPC10 QUADRO,
HekaLIH406 = MCS_PRODUCT_ID_HEKA_LIH_406,
HekaLIH816 = MCS_PRODUCT_ID_HEKA_LIH_816,
HekaITEV100 = MCS PRODUCT ID HEKA ITEV 100,
HekaPG610 = MCS PRODUCT ID HEKA PG 610,
HekaPG611 = MCS PRODUCT ID HEKA PG 611,
HekaPG612 = MCS PRODUCT ID HEKA PG 612,
HekaPG618 = MCS PRODUCT ID HEKA PG 618,
HekaPG690 = MCS PRODUCT ID HEKA PG 690,
HekaEPCLite = MCS PRODUCT ID HEKA EPC Lite,
STG = MCS_PRODUCT_ID_STG ,
Octopot = MCS PRODUCT ID OCTOPOT,
Tersens = MCS PRODUCT ID TERSENS,
Dotriapot = MCS_PRODUCT_ID_DOTRIAPOT ,
HLA = MCS_PRODUCT_ID_HLA,
STG400x = MCS PRODUCT ID STG400x
STG4002 = MCS PRODUCT ID STG4002,
STG4004 = MCS_PRODUCT_ID_STG4004,
STG4008 = MCS PRODUCT ID STG4008,
STG400x opto = MCS PRODUCT ID STG400x OPTO,
STG4002 opto = MCS PRODUCT ID STG4002 OPTO,
STG4004_opto = MCS_PRODUCT_ID_STG4004_OPTO ,
STG4008_opto = MCS_PRODUCT_ID_STG4008_OPTO ,
STG5 = MCS PRODUCT ID STG5,
STG3008 FA = MCS PRODUCT ID STG3008 FA,
STG500x = MCS_PRODUCT_ID_STG500x ,
MultiwellOptoStim = MCS PRODUCT ID MULTIWELLOPTOSTIM,
Generic = MCS PRODUCT ID GENERIC,
PGA = MCS PRODUCT ID PGA.
PCX = MCS_PRODUCT_ID_PCX,
TCX = MCS_PRODUCT_ID_TCX,
FCX = MCS PRODUCT ID FCX,
FCB = MCS_PRODUCT_ID_FCB,
TC01 = MCS_PRODUCT_ID_TC01,
TC02 = MCS_PRODUCT_ID_TC02,
Retina LED = MCS PRODUCT ID RETINA LED,
AMS_Dongle = MCS_PRODUCT_ID_RETINA_AMS_DONGLE,
Okuvision Stimulator = MCS PRODUCT ID OKUVISION STIMULATOR,
ExternBCTester = MCS PRODUCT ID RETINAIMPLANT EXTERNBCTESTER,
Triggerbox IMS = MCS PRODUCT ID RIAG TRIGGERBOX IMS,
Triggerbox AMS = MCS PRODUCT ID RIAG TRIGGERBOX AMS,
Triggerbox AMS3 = MCS PRODUCT ID RIAG TRIGGERBOX AMS3,
ExternDTester = MCS PRODUCT ID RETINAIMPLANT EXTERNDTESTER,
FunkDongleS = MCS PRODUCT ID RIAG FUNKDONGLES,
ExternSTester = MCS_PRODUCT_ID_RIAG_EXTERNSTESTER,
DongleS = MCS PRODUCT ID RIAG DONGLES,
Triggerbox R5 = MCS PRODUCT ID RIAG TRIGGERBOX R5,
MEA Switch = MCS PRODUCT ID MEA SWITCH,
MEA_Impedance = MCS_PRODUCT_ID_MEA_IMPEDANCE,
ChannelTest = MCS PRODUCT ID CHANNELTEST,
Sw2to64 = MCS PRODUCT ID SW2TO64,
PeristalticPump = MCS PRODUCT ID PERISTALTIC PUMP,
MEA_Switch_2_1 = MCS_PRODUCT_ID_MEA_SWITCH_2_1,
MEA_Switch_4_2 = MCS_PRODUCT_ID_MEA_SWITCH_4_2,
PPS4plus1 = MCS PRODUCT ID PPS4plus1,
PPS5 = MCS_PRODUCT_ID_PPS5,
PPS2 = MCS_PRODUCT_ID_PPS2,
```

```
PPS5_DIG = MCS_PRODUCT_ID_PPS5_DIG ,
MEA Clean = MCS PRODUCT ID MEA CLEAN,
MEA_Coat = MCS_PRODUCT_ID_MEA_COAT,
Multiwell_ICC = MCS_PRODUCT_ID_MULTIWELL_ICC ,
MBC08 = MCS PRODUCT ID MBC08,
PPC = MCS PRODUCT ID PPC,
MEA1060 = MCS PRODUCT ID MEA1060.
MEA Sanofi = MCS PRODUCT ID MEA SANOFI,
ME256 = MCS PRODUCT ID ME256,
ME128 = MCS PRODUCT ID ME128,
ME64 = MCS PRODUCT ID ME64,
ME32 = MCS_PRODUCT_ID_ME32,
ME16 = MCS_PRODUCT_ID_ME16,
MEA2100 Mini Usb develop = MCS PRODUCT ID MEA2100 MINI USB DEVELOP,
MEA256 = MCS_PRODUCT_ID_MEA256,
MEA2100 = MCS_PRODUCT_ID_MEA2100
MEA2100 32 = MCS PRODUCT ID MEA2100 32,
MEA2100 Lite = MCS PRODUCT ID MEA21 LITE,
Multiwell = MCS_PRODUCT_ID_MULTIWELL,
MEA2100 256 = MCS PRODUCT ID MEA2100 256,
ME2100 = MCS PRODUCT ID ME2100,
MEA2100BetaScreen = MCS PRODUCT ID MEA2100 BETA SCREEN,
MEA2100_Mini = MCS_PRODUCT_ID_MEA2100_MINI,
TBSI_Dacq = MCS_PRODUCT_ID_TBSI_DACQ,
Multiwell MEA Mini = MCS PRODUCT ID MULTIWELL MEA MINI,
Whole_Cell_Patch = MCS_PRODUCT_ID_WHOLE_CELL_PATCH,
eCube = MCS_PRODUCT_ID_ECUBE ,
Graphene FlagShip Core 2 = MCS PRODUCT ID GRAPHENE FLAGSHIP CORE 2,
GE2100 = MCS PRODUCT ID GE2100,
Multiboot = MCS PRODUCT ID MULTIBOOT,
WPA8 = MCS_PRODUCT_ID_WPA8,
WPA4 = MCS_PRODUCT_ID_WPA4
WPA16 = MCS PRODUCT ID WPA16,
WPA32 = MCS_PRODUCT_ID_WPA32,
W2100 = MCS_PRODUCT_ID_W2100,
NeuroChip = MCS_PRODUCT_ID_NEUROCHIP,
UsbTest = MCS PRODUCT ID USB TEST,
SoftwareDongle = MCS_PRODUCT_ID_SOFTWAREDONGLE,
PathIdent = MCS PRODUCT ID PATHIDENT,
NF Gen = MCS PRODUCT ID NF GEN,
SafelS = MCS PRODUCT ID SAFEIS,
Encapsulator = MCS PRODUCT ID ENCAPSULATOR,
NeurochipConfig = MCS PRODUCT ID NEUROCHIP CONFIG,
MeasureTable = MCS PRODUCT ID MEASURETABLE,
Robooycte2 = MCS PRODUCT ID ROBOOCYTE2,
Robolnject = MCS_PRODUCT_ID_ROBOINJECT,
HiClamp = MCS_PRODUCT_ID_HICLAMP,
PatchServer = MCS PRODUCT ID PATCHSERVER,
Dilutor = MCS PRODUCT ID DILUTOR,
HiClamp4Uart = MCS_PRODUCT_ID_HICLAMP4UART,
IM16S16KRA = MCS PRODUCT ID IM16S16KRA,
IM64KRB = MCS PRODUCT ID IM64KRB,
IS32KRA = MCS PRODUCT ID IS32KRA,
IM64KRC = MCS_PRODUCT_ID_IM64KRC
IM16S8KRA = MCS_PRODUCT_ID_IM16S8KRA ,
IM16KRC = MCS PRODUCT ID IM16KRC,
SmartImplant = MCS_PRODUCT_ID_SMARTIMPLANT ,
PositionImp = MCS_PRODUCT_ID_POSITION_IMP,
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PositionBase = MCS PRODUCT ID POSITION BASE
 PositionIICentralUnit = MCS PRODUCT ID POSITIONII CENTRAL UNIT,
 PositionIIBase = MCS PRODUCT ID POSITIONII BASE,
 GrapheneProjectTestDevice = MCS_PRODUCT_ID_GRAPHENE_PROJECT_TEST_DEVICE,
 Pos900 = MCS PRODUCT ID POS900,
 Neptun = MCS PRODUCT ID NEPTUN,
 Warner Valve Control = MCS PRODUCT ID WARNER VALVE CONTROL,
 Warner TEER Machine = MCS PRODUCT ID WARNER TEER MACHINE,
 Warner Ussing = MCS PRODUCT ID WARNER USSING }
    Enumerates the group of MCS devices to connect to.

    enum class McsBusTypeEnumNet {

 MCS_ANY_BUS = -1
 MCS_UNDEFINED_BUS = 0,
 MCS USB BUS,
 MCS PCI BUS }
    Enumerates the bus to use, either USB, PCI or any

    enum class McsUsbSpeedEnumNet {

 LowSpeed = 0,
 FullSpeed = 1,
 HighSpeed = 2
 SuperSpeed = 3,
 UnknownSpeed = 0xff }
    Enumerates the current connection speed of the device

    enum class CFirmwareDestinationNet {

 FPGA NORMAL = 0,
 DSP = MCSUSB_DEST_DSP,
 USB = MCSUSB_DEST_USB,
 MCU1 = MCSUSB_DEST_MCU1 ;
 MCSBUS1 = MCSUSB_DEST_MCSBUS1,
 MCSBUS2 = MCSUSB DEST MCSBUS2,
 MCSBUS3 = MCSUSB DEST MCSBUS3,
 MCSBUS4 = MCSUSB DEST MCSBUS4,
 MCSBUS5 = MCSUSB DEST MCSBUS5.
 MCSBUS6 = MCSUSB DEST MCSBUS6,
 MCSBUS7 = MCSUSB DEST MCSBUS7,
 MCSBUS8 = MCSUSB DEST MCSBUS8,
 MCSBUS9 = MCSUSB DEST MCSBUS9,
 MCSBUS10 = MCSUSB_DEST_MCSBUS10,
 MCSBUS11 = MCSUSB DEST MCSBUS11,
 MCSBUS12 = MCSUSB DEST MCSBUS12,
 MCSBUS13 = MCSUSB DEST MCSBUS13,
 MCSBUS14 = MCSUSB DEST MCSBUS14,
 MCSBUS15 = MCSUSB DEST MCSBUS15,
 MCSBUS0 = MCSUSB DEST MCSBUS0,
 BUSNUMBER1 = MCSUSB_DEST_BUSNUMBER1
 BUS1MCSBUS1 = MCSUSB_DEST_BUS1_MCSBUS1,
 BUS1MCSBUS2 = MCSUSB_DEST_BUS1_MCSBUS2,
 BUSNUMBER2 = MCSUSB DEST BUSNUMBER2,
 BUS2MCSBUS1 = MCSUSB_DEST_BUS2_MCSBUS1,
 BUS2MCSBUS2 = MCSUSB_DEST_BUS2_MCSBUS2,
 PIC = MCSUSB DEST PIC,
 PIC2 = MCSUSB DEST PIC2.
 PIC3 = MCSUSB_DEST_PIC3,
 PIC4 = MCSUSB DEST PIC4,
 PIC5 = MCSUSB DEST PIC5,
 PIC6 = MCSUSB DEST PIC6.
 PIC7 = MCSUSB DEST PIC7,
 PIC8 = MCSUSB DEST PIC8,
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PIC9 = MCSUSB_DEST_PIC9
PIC10 = MCSUSB DEST PIC10,
PIC11 = MCSUSB_DEST_PIC11,
PIC12 = MCSUSB_DEST_PIC12,
ChannelPIC = MCSUSB DEST CHANNELPIC,
Bootstrap = MCSUSB DEST BOOTSTRAP,
BootstrapOtherCypress = MCSUSB DEST BOOTSTAP OTHER CYPRESS,
ALTERA = MCSUSB DEST ALTERA,
FPGA2 = MCSUSB DEST FPGA2,
FPGA3 = MCSUSB DEST FPGA3,
FPGA4 = MCSUSB_DEST_FPGA4,
FPGA5 = MCSUSB_DEST_FPGA5,
FPGA6 = MCSUSB_DEST_FPGA6,
FPGA7 = MCSUSB DEST FPGA7,
FPGA8 = MCSUSB_DEST_FPGA8,
FPGA9 = MCSUSB_DEST_FPGA9,
FPGA10 = MCSUSB DEST FPGA10,
FPGA11 = MCSUSB DEST FPGA11,
FPGA12 = MCSUSB_DEST_FPGA12,
FPGA13 = MCSUSB DEST FPGA13,
FPGA14 = MCSUSB DEST FPGA14,
FPGA15 = MCSUSB DEST FPGA15,
FPGA16 = MCSUSB_DEST_FPGA16,
FPGA GOLD = XILINX DEST GOLDEN :
ALTERA GOLD = (MCSUSB DEST ALTERA | XILINX DEST GOLDEN),
FPGA2_GOLD = (MCSUSB_DEST_FPGA2 | XILINX_DEST_GOLDEN),
FPGA3_GOLD = (MCSUSB_DEST_FPGA3 | XILINX_DEST_GOLDEN),
FPGA4 GOLD = (MCSUSB DEST FPGA4 | XILINX DEST GOLDEN),
FPGA5 GOLD = (MCSUSB DEST FPGA5 | XILINX DEST GOLDEN),
FPGA6 GOLD = (MCSUSB DEST FPGA6 | XILINX DEST GOLDEN),
FPGA7_GOLD = (MCSUSB_DEST_FPGA7 | XILINX_DEST_GOLDEN),
FPGA8_GOLD = (MCSUSB_DEST_FPGA8 | XILINX_DEST_GOLDEN),
FPGA9 GOLD = (MCSUSB DEST FPGA9 | XILINX DEST GOLDEN),
FPGA10_GOLD = (MCSUSB_DEST_FPGA10 | XILINX_DEST_GOLDEN),
FPGA11_GOLD = (MCSUSB_DEST_FPGA11 | XILINX_DEST_GOLDEN),
FPGA12_GOLD = (MCSUSB_DEST_FPGA12 | XILINX_DEST_GOLDEN),
FPGA13 GOLD = (MCSUSB DEST FPGA13 | XILINX DEST GOLDEN),
FPGA14_GOLD = (MCSUSB_DEST_FPGA14 | XILINX_DEST_GOLDEN),
FPGA15 GOLD = (MCSUSB DEST FPGA15 | XILINX DEST GOLDEN),
FPGA16 GOLD = (MCSUSB DEST FPGA16 | XILINX DEST GOLDEN),
FPGA BASE = XILINX DEST BASEIMAGE,
ALTERA BASE = (MCSUSB DEST ALTERA | XILINX DEST BASEIMAGE),
FPGA2 BASE = (MCSUSB DEST FPGA2 | XILINX DEST BASEIMAGE),
FPGA3 BASE = (MCSUSB DEST FPGA3 | XILINX DEST BASEIMAGE),
FPGA4 BASE = (MCSUSB DEST FPGA4 | XILINX DEST BASEIMAGE),
FPGA5_BASE = (MCSUSB_DEST_FPGA5 | XILINX_DEST_BASEIMAGE) ,
FPGA6 BASE = (MCSUSB DEST FPGA6 | XILINX DEST BASEIMAGE),
FPGA7 BASE = (MCSUSB DEST FPGA7 | XILINX DEST BASEIMAGE),
FPGA8 BASE = (MCSUSB DEST FPGA8 | XILINX DEST BASEIMAGE),
FPGA9_BASE = (MCSUSB_DEST_FPGA9 | XILINX_DEST_BASEIMAGE) ;
FPGA10 BASE = (MCSUSB DEST FPGA10 | XILINX DEST BASEIMAGE),
FPGA11 BASE = (MCSUSB DEST FPGA11 | XILINX DEST BASEIMAGE),
FPGA12 BASE = (MCSUSB DEST FPGA12 | XILINX DEST BASEIMAGE),
FPGA13_BASE = (MCSUSB_DEST_FPGA13 | XILINX_DEST_BASEIMAGE),
FPGA14_BASE = (MCSUSB_DEST_FPGA14 | XILINX_DEST_BASEIMAGE),
FPGA15_BASE = (MCSUSB_DEST_FPGA15 | XILINX_DEST_BASEIMAGE),
FPGA16_BASE = (MCSUSB_DEST_FPGA16 | XILINX_DEST_BASEIMAGE),
FPGA_BOOTSTRAP = XILINX_DEST_BOOTSTRAP,
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ALTERA BOOTSTRAP = (MCSUSB_DEST_ALTERA | XILINX_DEST_BOOTSTRAP),
 DEST TARGET1 = FLASH DEST TARGET1,
 DEST_TARGET2 = FLASH_DEST_TARGET2 ,
 DEST_TARGET3 = FLASH_DEST_TARGET3 ,
 DEST TARGET4 = FLASH DEST TARGET4,
 DEST TARGET5 = FLASH DEST TARGET5,
 DEST TARGET6 = FLASH DEST TARGET6.
 DEST TARGET7 = FLASH DEST TARGET7,
 DEST TARGET8 = FLASH DEST TARGET8,
 DEST TARGET9 = FLASH DEST TARGET9,
 DEST_TARGET10 = FLASH_DEST_TARGET10 ,
 DEST_TARGET11 = FLASH_DEST_TARGET11 ,
 DEST_TARGET12 = FLASH_DEST_TARGET12 ,
 DEST TARGET13 = FLASH DEST TARGET13,
 DEST_TARGET14 = FLASH_DEST_TARGET14,
 DEST_TARGET15 = FLASH_DEST_TARGET15,
 DEST TARGET MASK = FPGA DEST TARGET MASK.
 DEST FX3 TARGET MASK = FX3 DEST TARGET MASK,
 ALTERA TARGET1 = (MCSUSB DEST ALTERA | FLASH DEST TARGET1),
 ALTERA TARGET2 = (MCSUSB DEST ALTERA | FLASH DEST TARGET2),
 ALTERA TARGET3 = (MCSUSB DEST ALTERA | FLASH DEST TARGET3),
 USB TARGET1 = (MCSUSB DEST USB | FLASH DEST TARGET1),
 USB_TARGET2 = (MCSUSB_DEST_USB | FLASH_DEST_TARGET2) ,
 USB TARGET3 = (MCSUSB DEST USB | FLASH DEST TARGET3),
 UnknownDest = MCSUSB DEST UNKNOWN }
    Enumerates the destination processor for the firmware.
 enum class DigitalTargetEnumNet {
 Digout = (MEA COMMAND << 16) + MEA MEA21 DIGOUT SOURCE,
 Digstream = (MEA COMMAND << 16) + MEA MEA21 DIGSTREAM SOURCE,
 DacqTrigger = (MEA COMMAND << 16) + MEA MEA21 DACQTRIGGER SOURCE,
 StgTrigger = (STG200x COMMAND << 16) + STG200x TRIGGER SOURCE,
 StgListModeTrigger = (STG200x COMMAND << 16) + STG200x MEA21 LISTMODE TRIGGERSOURCE
 DigOutStimulatorStartTrigger = (MEA COMMAND << 16) + MEA DIGOUT STG START TRIGGER ←
 SOURCE.
 DigOutStimulatorStopTrigger = (MEA COMMAND << 16) + MEA DIGOUT STG STOP TRIGGER ←
 SOURCE,
 DigStreamToReceiver = (MEA COMMAND << 16) + MEA DIGSTREAMTORECEIVER SOURCE }
    Enumerates the Digital Targets for Digital Sources

    enum class DigitalSourceEnumNet {

 DigitalInOfOutPort = 0,
 DigitalIn = 16,
 DigitalPulse = 32,
 Feedback = 64,
 AuxIn = 96
 Zero = 98,
 One = 99,
 HS1Trigger1Status = 100,
 HS1Trigger2Status = 102,
 HS1Trigger3Status = 104,
 HS1Trigger4Status = 106,
 HS1Trigger5Status = 108,
 HS1Trigger6Status = 110,
 HS1Sideband1 = 112,
 HS1Sideband2 = 128,
 HS1Sideband3 = 144,
 HS1Sideband4 = 160.
 HS1Sideband5 = 176,
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HS1Sideband6 = 192,
 HS2Trigger1Status = 208,
 HS2Trigger2Status = 210,
 HS2Trigger3Status = 212,
 HS2Trigger4Status = 214,
 HS2Trigger5Status = 216,
 HS2Trigger6Status = 218,
 HS2Sideband1 = 220,
 HS2Sideband2 = 236,
 HS2Sideband3 = 252.
 HS2Sideband4 = 268,
 HS2Sideband5 = 284,
 HS2Sideband6 = 300,
 PulseGenerator = 316,
 DigitalOutStimulator = 320,
 DigitalData = 336,
 DeviceRunStatus = 368,
 LastPosition = 372 }
     Enumerates the digital source of the MEA2100 device.

    enum class W2100DigitalSourceEnumNet {

 DigitalInOfOutPort = 0,
 DigitalIn = 16,
 DigitalPulse = 32,
 Feedback = 64,
 AuxIn = 96,
 Zero = 98,
 One = 99,
 PulseGenerator = 100,
 DigDataFromReceiver = 128,
 DigitalOutStimulator = 192,
 DigitalData = 208,
 DeviceRunStatus = 240,
 DigStreamFromReceiver = 256,
 LastPosition = 320 }
     Enumerates the digital source of the W2100 device.
 enum class SCUDigitalSourceEnumNet {
 DigitalInOfOutPort = (0x00 << 8) + 0,
 DigitalIn = (0x00 << 8) + 16,
 DigitalPulse = (0x01 << 8),
 Feedback = (0x02 << 8),
 AuxIn = (0x03 << 8) + 0
 Zero = (0x03 << 8) + 2.
 One = (0x03 << 8) + 3,
 PulseGenerator = (0x03 << 8) + 8,
 DigitalOutStimulator = (0x03 << 8) + 16,
 DigitalData = (0x04 << 8),
 DeviceRunStatus = (0x05 << 8) + 0,
 HS1Trigger1Status = (0x40 << 8) + 0,
 HS1Trigger2Status = (0x40 << 8) + 2
 HS1Trigger3Status = (0x40 << 8) + 4,
 HS1Trigger4Status = (0x40 << 8) + 6,
 HS1Trigger5Status = (0x40 << 8) + 8
 HS1Trigger6Status = (0x40 << 8) + 10.
 HS1Trigger7Status = (0x40 << 8) + 12
 HS1Trigger8Status = (0x40 << 8) + 14,
 HS1Trigger9Status = (0x40 << 8) + 16
 HS1Trigger10Status = (0x40 << 8) + 18,
 HS1Trigger11Status = (0x40 << 8) + 20,
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HS1Trigger12Status = (0x40 << 8) + 22,
 HS1Sideband1 = (0x42 << 8),
 HS1Sideband2 = (0x43 << 8),
 HS1Sideband3 = (0x44 << 8),
 HS1Sideband4 = (0x45 << 8),
 HS1Sideband5 = (0x46 << 8),
 HS1Sideband6 = (0x47 << 8),
 HS1Sideband7 = (0x48 << 8),
 HS1Sideband8 = (0x49 << 8),
 HS1Sideband9 = (0x4A << 8).
 HS1Sideband10 = (0x4B << 8),
 HS1Sideband11 = (0x4C << 8),
 HS1Sideband12 = (0x4D << 8),
 HS2Trigger1Status = (0x80 << 8) + 0
 HS2Trigger2Status = (0x80 << 8) + 2,
 HS2Trigger3Status = (0x80 << 8) + 4,
 HS2Trigger4Status = (0x80 << 8) + 6
 HS2Trigger5Status = (0x80 << 8) + 8.
 HS2Trigger6Status = (0x80 << 8) + 10,
 HS2Trigger7Status = (0x80 << 8) + 12
 HS2Trigger8Status = (0x80 << 8) + 14
 HS2Trigger9Status = (0x80 << 8) + 16,
 HS2Trigger10Status = (0x80 << 8) + 18,
 HS2Trigger11Status = (0x80 << 8) + 20,
 HS2Trigger12Status = (0x80 << 8) + 22
 HS2Sideband1 = (0x82 << 8),
 HS2Sideband2 = (0x83 << 8),
 HS2Sideband3 = (0x84 << 8),
 HS2Sideband4 = (0x85 << 8).
 HS2Sideband5 = (0x86 << 8),
 HS2Sideband6 = (0x87 << 8),
 HS2Sideband7 = (0x88 << 8),
 HS2Sideband8 = (0x89 << 8),
 HS2Sideband9 = (0x8A << 8),
 HS2Sideband10 = (0x8B << 8),
 HS2Sideband11 = (0x8C << 8),
 HS2Sideband12 = (0x8D << 8),
 LastPosition = (0xFF << 8)}
     Enumerates the digital source of the SCU device.

    enum class MEA2100 256DigitalSourceEnumNet {

 DigitalInOfOutPort = (0x00 << 8) + 0,
 DigitalIn = (0x00 << 8) + 16,
 DigitalPulse = (0x01 << 8),
 Feedback = (0x02 << 8),
 AuxIn = (0x03 << 8) + 0
 Zero = (0x03 << 8) + 2
 One = (0x03 << 8) + 3.
 DeviceRunStatus = (0x03 << 8) + 4,
 PulseGenerator = (0x03 << 8) + 8,
 DigitalOutStimulator = (0x03 << 8) + 16,
 DigitalData = (0x04 << 8),
 HS1Trigger1Status = (0x40 << 8) + 0,
 HS1Trigger2Status = (0x40 << 8) + 2,
 HS1Trigger3Status = (0x40 << 8) + 4
 HS1Trigger4Status = (0x40 << 8) + 6
 HS1Trigger5Status = (0x40 << 8) + 8,
 HS1Trigger6Status = (0x40 << 8) + 10,
 HS1Trigger7Status = (0x40 << 8) + 12
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HS1Trigger8Status = (0x40 << 8) + 14,
HS1Trigger9Status = (0x40 << 8) + 16
HS1Trigger10Status = (0x40 << 8) + 18,
HS1Trigger11Status = (0x40 << 8) + 20,
HS1Trigger12Status = (0x40 << 8) + 22,
HS1Trigger13Status = (0x40 << 8) + 24,
HS1Trigger14Status = (0x40 << 8) + 26,
HS1Trigger15Status = (0x40 << 8) + 28,
HS1Trigger16Status = (0x40 << 8) + 30,
HS1Trigger17Status = (0x41 << 8) + 0
HS1Trigger18Status = (0x41 << 8) + 2,
HS1Sideband1 = (0x42 << 8),
HS1Sideband2 = (0x43 << 8),
HS1Sideband3 = (0x44 << 8),
HS1Sideband4 = (0x45 << 8),
HS1Sideband5 = (0x46 << 8),
HS1Sideband6 = (0x47 << 8),
HS1Sideband7 = (0x48 << 8),
HS1Sideband8 = (0x49 << 8),
HS1Sideband9 = (0x4A << 8),
HS1Sideband10 = (0x4B << 8),
HS1Sideband11 = (0x4C << 8),
HS1Sideband12 = (0x4D << 8),
HS1Sideband13 = (0x4E << 8),
HS1Sideband14 = (0x4F << 8),
HS1Sideband15 = (0x50 << 8),
HS1Sideband16 = (0x51 << 8),
HS1Sideband17 = (0x52 << 8),
HS1Sideband18 = (0x53 << 8).
HS2Trigger1Status = (0x80 << 8) + 0,
HS2Trigger2Status = (0x80 << 8) + 2,
HS2Trigger3Status = (0x80 << 8) + 4
HS2Trigger4Status = (0x80 << 8) + 6
HS2Trigger5Status = (0x80 << 8) + 8
HS2Trigger6Status = (0x80 << 8) + 10,
HS2Trigger7Status = (0x80 << 8) + 12,
HS2Trigger8Status = (0x80 << 8) + 14
HS2Trigger9Status = (0x80 << 8) + 16,
HS2Trigger10Status = (0x80 << 8) + 18,
HS2Trigger11Status = (0x80 << 8) + 20,
HS2Trigger12Status = (0x80 << 8) + 22
HS2Trigger13Status = (0x80 << 8) + 24,
HS2Trigger14Status = (0x80 << 8) + 26,
HS2Trigger15Status = (0x80 << 8) + 28,
HS2Trigger16Status = (0x80 << 8) + 30,
HS2Trigger17Status = (0x81 << 8) + 0,
HS2Trigger18Status = (0x81 << 8) + 2,
HS2Sideband1 = (0x82 << 8),
HS2Sideband2 = (0x83 << 8),
HS2Sideband3 = (0x84 << 8),
HS2Sideband4 = (0x85 << 8),
HS2Sideband5 = (0x86 << 8),
HS2Sideband6 = (0x87 << 8),
HS2Sideband7 = (0x88 << 8),
HS2Sideband8 = (0x89 << 8),
HS2Sideband9 = (0x8A << 8),
HS2Sideband10 = (0x8B << 8),
HS2Sideband11 = (0x8C << 8),
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HS2Sideband12 = (0x8D << 8),
  HS2Sideband13 = (0x8E << 8),
  HS2Sideband14 = (0x8F << 8),
  HS2Sideband15 = (0x90 << 8),
  HS2Sideband16 = (0x91 << 8),
  HS2Sideband17 = (0x92 << 8),
  HS2Sideband18 = (0x93 << 8),
  LastPosition = (0xFF << 8)}
     Enumerates the digital source of the MEA2100-256 device.

    enum class TBSI_DACQDigitalSourceEnumNet {

  DigitalInOfOutPort = (0x00 << 8) + 0,
  DigitalIn = (0x00 << 8) + 16,
  DigitalPulse = (0x01 << 8),
  Feedback = (0x02 << 8),
  AuxIn = (0x03 << 8) + 0
  Zero = (0x03 << 8) + 2
  One = (0x03 << 8) + 3,
  DeviceRunStatus = (0x03 << 8) + 4,
  PulseGenerator = (0x03 << 8) + 8,
  DigitalOutStimulator = (0x03 << 8) + 16,
  DigitalData = (0x04 << 8),
  HS1DigitalData1 = (0x30 << 8),
  HS2DigitalData1 = (0x70 << 8),
  LastPosition = (0xFF << 8)}
     Enumerates the digital source of the TBSI-DACQ device.

    enum class TriggerSourceEnumNet {

  tsNone = 0,
  tsDigitalIn1 = 1,
  tsDigitalIn2 = 2,
  tsDigitalIn3 = 3,
  tsDigitalIn4 = 4,
  tsDigitalIn5 = 5,
  tsDigitalIn6 = 6,
  tsDigitalIn7 = 7,
  tsDigitalIn8 = 8,
  tsDigitalIn9 = 9,
  tsDigitalIn10 = 10,
  tsDigitalIn11 = 11,
  tsDigitalIn12 = 12,
  tsDigitalIn13 = 13,
  tsDigitalIn14 = 14,
  tsDigitalIn15 = 15.
  tsDigitalIn16 = 16,
  tsDigitalIn17 = 17,
  tsDigitalIn18 = 18,
  tsDigitalIn19 = 19,
  tsDigitalIn20 = 20,
  tsDigitalIn21 = 21,
  tsDigitalIn22 = 22,
  tsDigitalIn23 = 23,
  tsDigitalIn24 = 24,
  tsDigitalIn25 = 25,
  tsDigitalIn26 = 26.
  tsDigitalIn27 = 27,
  tsDigitalIn28 = 28,
  tsDigitalIn29 = 29,
  tsDigitalIn30 = 30,
  tsDigitalIn31 = 31,
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tsDigitalIn32 = 32,
tsFeedback1 = 33,
tsFeedback2 = 34,
tsFeedback3 = 35,
tsFeedback4 = 36,
tsFeedback5 = 37,
tsFeedback6 = 38,
tsFeedback7 = 39,
tsFeedback8 = 40,
tsFeedback9 = 41,
tsFeedback10 = 42,
tsFeedback11 = 43,
tsFeedback12 = 44,
tsFeedback13 = 45,
tsFeedback14 = 46,
tsFeedback15 = 47,
tsFeedback16 = 48,
tsFeedback17 = 49,
tsFeedback18 = 50,
tsFeedback19 = 51,
tsFeedback20 = 52,
tsFeedback21 = 53,
tsFeedback22 = 54,
tsFeedback23 = 55,
tsFeedback24 = 56,
tsFeedback25 = 57,
tsFeedback26 = 58,
tsFeedback27 = 59,
tsFeedback28 = 60.
tsFeedback29 = 61,
tsFeedback30 = 62,
tsFeedback31 = 63,
tsFeedback32 = 64,
tsAuxIn1 = 65,
tsAuxIn2 = 66,
tsDigitalPuse0 = 67,
tsDigitalPuse1 = 68,
tsDigitalPuse2 = 69,
tsDigitalPuse3 = 70,
tsDigitalPuse4 = 71,
tsDigitalPuse5 = 72,
tsDigitalPuse6 = 73,
tsDigitalPuse7 = 74,
tsDigitalPuse8 = 75,
tsDigitalPuse9 = 76,
tsDigitalPuse10 = 77,
tsDigitalPuse11 = 78,
tsDigitalPuse12 = 79,
tsDigitalPuse13 = 80,
tsDigitalPuse14 = 81,
tsDigitalPuse15 = 82,
tsDigitalPuse16 = 83,
tsDigitalPuse17 = 84,
tsDigitalPuse18 = 85,
tsDigitalPuse19 = 86,
tsDigitalPuse20 = 87,
tsDigitalPuse21 = 88,
tsDigitalPuse22 = 89,
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tsDigitalPuse23 = 90,
 tsDigitalPuse24 = 91,
 tsDigitalPuse25 = 92,
 tsDigitalPuse26 = 93,
 tsDigitalPuse27 = 94,
 tsDigitalPuse28 = 95,
 tsDigitalPuse29 = 96,
 tsDigitalPuse30 = 97,
 tsDigitalPuse31 = 98,
 tsTriggered = 99.
 tsSidebandBit8 = 100,
 tsDACQCy1Dev1Runs = 101,
 tsDACQCy1Dev2Runs = 102,
 tsDACQCy2Dev1Runs = 103,
 tsDACQCy2Dev2Runs = 104 }
    Enumerates the trigger source of the MEA2100 device.

    enum class AnalogSourceEnumNet {

 AnalogSource_HS1,
 AnalogSource_HS2,
 AnalogSource_IF }
    Enumerates the analog source of the MEA2100 device.

    enum class Stg200xTriggerStatusEnumNet {

 Idle = 0.
 Running = 1,
 Finished = 2,
 Armed = 3
    Enumerates the STG download mode trigger status

    enum class RetriggerActionEnumNet {

 raStop = STG200x RETRIGGER STOP.
 raRestart = STG200x_RETRIGGER_RESTART,
 ralgnore = STG200x_RETRIGGER_IGNORE,
 raGate = STG200x RETRIGGER GATEMODE,
 raSingle = STG200x_RETRIGGER_SINGLE }
     Enumerates possible retrigger actions for STG200x devices.

    enum class Stg200xSegmentFlagsEnumNet {

 None = 0,
 UpdateTrigger = SEGMENTFLAGS UPDATETRIGGER ,
 DownloadOnly = SEGMENTFLAGS DOWNLOADONLY,
 TriggerOnly = SEGMENTFLAGS_TRIGGERONLY,
 SyncStart = SEGMENTFLAGS_SYNCSTART }
    Enumerates Segmentflag options for STG400x devices.

    enum class Stg200xDigoutModeEnumNet {

 Monitor = STG200x DIGOUTMODE MONITOR,
 Manual = STG200x DIGOUTMODE MANUAL,
 SYNCOUT1 = STG200x_DIGOUTMODE_SYNCOUT1 ,
 SYNCOUT2 = STG200x_DIGOUTMODE_SYNCOUT2 ,
 SYNCOUT3 = STG200x_DIGOUTMODE_SYNCOUT3 ,
 SYNCOUT4 = STG200x DIGOUTMODE SYNCOUT4,
 SYNCOUT5 = STG200x_DIGOUTMODE_SYNCOUT5 ,
 SYNCOUT6 = STG200x_DIGOUTMODE_SYNCOUT6 ,
 SYNCOUT7 = STG200x DIGOUTMODE SYNCOUT7,
 SYNCOUT8 = STG200x DIGOUTMODE SYNCOUT8 }
    Enumerates the DigoutMode on STG400x devices.

    enum class DigitalStimulatorTriggerSlopeEnumNet {

 Falling = 0,
 Rising = 1 }
```

```
Enumerates start/stop conditions for DigOut/DigStim trigger. /summary>

    enum class DigitalStimulatorTriggerEventEnumNet {

 Start = 0,
 Stop = 1
     Enumerates start/stop event for DigOut/DigStim trigger. /summary>
enum class AdapterTypeEnumNet {
 None = 0,
 MEA60 = 1,
 MEA2x60 = 2,
 MEA120 = 3,
 MEA32 = 4,
 MEA2x32 = 5
 Multiwell96 = 6,
 WirelessTestAdapter = 7,
 MEA252 = 8,
 MEA 2 252 2 = 9.
 MEA_2_252_2_6Well = 10 ,
 MEA 2 252 2 9Well = 11,
 MEA_2_252_2_Test = 12,
 TBSI_5 = 13,
 TBSI_15 = 14,
 TBSI_31 = 15,
 TBSI_{63} = 16,
 TBSI 127 = 17,
 TBSI_Reserved = 18,
 Ci4600Intan = 20,
 Unknown = ADAPTER TYPE UNKOWN.
 NotApplicable = ADAPTER TYPE ENUM NOT APPLICABLE }
     Enumerates the adapter type of the MEA2100 device.
enum class MeaLayoutEnumNet {
 mlUnknown = 0,
 mIMEA60 = 1
     Enumerates the MEA layout of the MEA2100 device.

    enum class DataModeEnumNet {

 Unsigned_16bit = 0,
 Unsigned_24bit = 2,
 Unsigned_32bit = 3,
 Signed 16bit = 8,
 Signed 24bit = 10,
 Signed 32bit = 11 }
     Enumerates the data mode of the device, either 16, 24 or 32 bit, can be signed or unsigned.
• enum class SampleSizeNet {
 SampleSize16Unsigned = 2,
 SampleSize16Signed = 2 + 0x100,
 SampleSize24Unsigned = 3,
 SampleSize24Signed = 3 + 0x100,
 SampleSize32Unsigned = 4,
 SampleSize32Signed = 4 + 0x100,
 SampleSize64Unsigned = 8,
 SampleSize64Signed = 8 + 0x100 }
     Enumerates the data format for ChannelBlock functions.
enum class SampleDstSizeNet {
 SampleDstSize16 = 2,
 SampleDstSize32 = 4 }
     Enumerates the destination data format for ChannelBlock functions.
enum class TcxDeviceTypeEnumNet {
 Unknown = 0,
```

```
Regular = 1,
 BMI = 2,
 Nanion = 3.
 Warner = 4 }
     Enumerates the type of TCX devices.

    enum class TcxSensorTypeEnumNet {

 Reserved5 = 0.
 Reserved4 = 1,
 Reserved3 = 2,
 Reserved2 = 3,
 Reserved 1 = 4,
 NTC10K = 5,
 PT1000 = 6,
 PT100 = 7
     Enumerates the sensor types for TCX devices

    enum class STG DestinationEnumNet {

 channeldata voltage,
 channeldata_current,
 syncoutdata,
 channeldata_positive_voltage,
 channeldata_positive_current,
 rawdata,
 channeldata current own sync,
 channeldata positive current own sync,
 channeldata current own boost gnd sync,
 channeldata_positive_current_own_boost_gnd_sync,
 channeldata current always boost,
 channeldata_current_always_boost_own_sync }
     Enumerates the destination for STG downloads.

    enum class ElectrodeModeEnumNet {

 emAutomatic = 0,
 emManual = 3 }
     Enumerates the mode of each electrode, can be automatic or manual. In automatic mode, the blanking of the
     electrode is controlled by the sideband signal, in manual mode, the stimulation configuration is independant of the
     sideband signal.

    enum class ElectrodeDacMuxEnumNet {

 Ground = 0,
 Stg1 = 1,
 Stg2 = 2
 Stg3 = 3
     Enumerates the setting of the Stimulation DAC Multiplexer.

    enum class DacqGroupChannelEnumNet {

 HeadstageElectrodeGroup = 0x00,
 InterfaceADCGroup = INTERFACEANALOGCHANNELSGROUP,
 DSPDataGroup = DSPDATACHANNELSGROUP,
 Headstage1NCBathCurrentGroup = 0x30,
 Headstage1NCCol2CurrentGroup = 0x31,
 Headstage1NChipTempGroup = 0x32,
 STG1DACSignalGroup = 0x38,
 LIH30UserADCGroup = 0x50,
 LIH30TestADCGroup = 0x51,
 LIH30ADCModulesGroup = 0x52.
 IFDigChannelsGroup = INTERFACEDIGITALCHANNELSGROUP,
 STG1SidebandsGroup = 0x90,
 STG1TriggerStatusGroup = 0x91,
 DACQ1DigitalGroup = 0xA0,
 AudioTestChannelGroup = AUDIOTESTCHANNELGROUP,
```

PacketFrameContextGroup = PACKETFRAMECONTEXTGROUP }

Enumerates the Channel Groups of Datastream

```
    enum class W2100DacqGroupChannelEnumNet {

 InterfaceADCGroup = INTERFACEANALOGCHANNELSGROUP,
 DSPDataGroup = DSPDATACHANNELSGROUP,
 WirelessHeadStageAnalogRE1HS1 = WIRELESSHEADSTAGEANALOGGROUPBASE + 0 + 0 + 0,
 WirelessHeadStageStatusRE1HS1 = WIRELESSHEADSTAGEANALOGGROUPBASE + 0 + 0 + 1,
 WirelessHeadStageAnalogRE1HS2 = WIRELESSHEADSTAGEANALOGGROUPBASE + 0 + 2 + 0,
 WirelessHeadStageStatusRE1HS2 = WIRELESSHEADSTAGEANALOGGROUPBASE + 0 + 2 + 1,
 WirelessHeadStageAnalogRE1HS3 = WIRELESSHEADSTAGEANALOGGROUPBASE + 0 + 4 + 0.
 WirelessHeadStageStatusRE1HS3 = WIRELESSHEADSTAGEANALOGGROUPBASE + 0 + 4 + 1,
 WirelessHeadStageAnalogRE1HS4 = WIRELESSHEADSTAGEANALOGGROUPBASE + 0 + 6 + 0,
 WirelessHeadStageStatusRE1HS4 = WIRELESSHEADSTAGEANALOGGROUPBASE + 0 + 6 + 1,
 WirelessHeadStageAnalogRE2HS1 = WIRELESSHEADSTAGEANALOGGROUPBASE + 8 + 0 + 0,
 WirelessHeadStageStatusRE2HS1 = WIRELESSHEADSTAGEANALOGGROUPBASE + 8 + 0 + 1,
 WirelessHeadStageAnalogRE2HS2 = WIRELESSHEADSTAGEANALOGGROUPBASE + 8 + 2 + 0,
 WirelessHeadStageStatusRE2HS2 = WIRELESSHEADSTAGEANALOGGROUPBASE + 8 + 2 + 1,
 WirelessHeadStageAnalogRE2HS3 = WIRELESSHEADSTAGEANALOGGROUPBASE + 8 + 4 + 0.
 WirelessHeadStageStatusRE2HS3 = WIRELESSHEADSTAGEANALOGGROUPBASE + 8 + 4 + 1,
 WirelessHeadStageAnalogRE2HS4 = WIRELESSHEADSTAGEANALOGGROUPBASE + 8 + 6 + 0,
 WirelessHeadStageStatusRE2HS4 = WIRELESSHEADSTAGEANALOGGROUPBASE + 8 + 6 + 1,
 WirelessHeadStageGyroDataRE1HS1 = WIRELESSHEADSTAGEANALOGGROUPBASE + 0 + 0 + 0 + 16,
 WirelessHeadStageAccDataRE1HS1 = WIRELESSHEADSTAGEANALOGGROUPBASE + 0 + 0 + 1 + 16,
 WirelessHeadStageGyroDataRE1HS2 = WIRELESSHEADSTAGEANALOGGROUPBASE + 0 + 2 + 0 + 16,
 WirelessHeadStageAccDataRE1HS2 = WIRELESSHEADSTAGEANALOGGROUPBASE + 0 + 2 + 1 + 16,
 WirelessHeadStageGyroDataRE1HS3 = WIRELESSHEADSTAGEANALOGGROUPBASE + 0 + 4 + 0 + 16,
 WirelessHeadStageAccDataRE1HS3 = WIRELESSHEADSTAGEANALOGGROUPBASE + 0 + 4 + 1 + 16,
 WirelessHeadStageGyroDataRE1HS4 = WIRELESSHEADSTAGEANALOGGROUPBASE + 0 + 6 + 0 + 16,
 WirelessHeadStageAccDataRE1HS4 = WIRELESSHEADSTAGEANALOGGROUPBASE + 0 + 6 + 1 + 16.
 WirelessHeadStageGyroDataRE2HS1 = WIRELESSHEADSTAGEANALOGGROUPBASE + 8 + 0 + 0 + 16,
 WirelessHeadStageAccDataRE2HS1 = WIRELESSHEADSTAGEANALOGGROUPBASE + 8 + 0 + 1 + 16,
 WirelessHeadStageGyroDataRE2HS2 = WIRELESSHEADSTAGEANALOGGROUPBASE + 8 + 2 + 0 + 16,
 WirelessHeadStageAccDataRE2HS2 = WIRELESSHEADSTAGEANALOGGROUPBASE + 8 + 2 + 1 + 16,
 WirelessHeadStageGyroDataRE2HS3 = WIRELESSHEADSTAGEANALOGGROUPBASE + 8 + 4 + 0 + 16,
 WirelessHeadStageAccDataRE2HS3 = WIRELESSHEADSTAGEANALOGGROUPBASE + 8 + 4 + 1 + 16,
 WirelessHeadStageGyroDataRE2HS4 = WIRELESSHEADSTAGEANALOGGROUPBASE + 8 + 6 + 0 + 16,
 WirelessHeadStageAccDataRE2HS4 = WIRELESSHEADSTAGEANALOGGROUPBASE + 8 + 6 + 1 + 16,
 WirelessHeadStageOptoStimCurrentRE1HS1 = WIRELESSHEADSTAGEANALOGGROUPBASE + 0 + 0 +
 0 + 32,
 WirelessHeadStageReservedARE1HS1 = WIRELESSHEADSTAGEANALOGGROUPBASE + 0 + 0 + 1 + 32
 WirelessHeadStageOptoStimCurrentRE1HS2 = WIRELESSHEADSTAGEANALOGGROUPBASE + 0 + 2 +
 0 + 32.
 WirelessHeadStageReservedARE1HS2 = WIRELESSHEADSTAGEANALOGGROUPBASE + 0 + 2 + 1 + 32
 WirelessHeadStageOptoStimCurrentRE1HS3 = WIRELESSHEADSTAGEANALOGGROUPBASE + 0 + 4 +
 0 + 32,
 WirelessHeadStageReservedARE1HS3 = WIRELESSHEADSTAGEANALOGGROUPBASE + 0 + 4 + 1 + 32
 WirelessHeadStageOptoStimCurrentRE1HS4 = WIRELESSHEADSTAGEANALOGGROUPBASE + 0 + 6 +
 WirelessHeadStageReservedARE1HS4 = WIRELESSHEADSTAGEANALOGGROUPBASE + 0 + 6 + 1 + 32
 WirelessHeadStageOptoStimCurrentRE2HS1 = WIRELESSHEADSTAGEANALOGGROUPBASE + 8 + 0 +
 WirelessHeadStageReservedARE2HS1 = WIRELESSHEADSTAGEANALOGGROUPBASE + 8 + 0 + 1 + 32
 WirelessHeadStageOptoStimCurrentRE2HS2 = WIRELESSHEADSTAGEANALOGGROUPBASE + 8 + 2 +
 0 + 32,
```

```
WirelessHeadStageReservedARE2HS2 = WIRELESSHEADSTAGEANALOGGROUPBASE + 8 + 2 + 1 + 32
 WirelessHeadStageOptoStimCurrentRE2HS3 = WIRELESSHEADSTAGEANALOGGROUPBASE + 8 + 4 +
 0 + 32.
 WirelessHeadStageReservedARE2HS3 = WIRELESSHEADSTAGEANALOGGROUPBASE + 8 + 4 + 1 + 32
 WirelessHeadStageOptoStimCurrentRE2HS4 = WIRELESSHEADSTAGEANALOGGROUPBASE + 8 + 6 +
 0 + 32.
 WirelessHeadStageReservedARE2HS4 = WIRELESSHEADSTAGEANALOGGROUPBASE + 8 + 6 + 1 + 32
 WirelessHeadStageReservedBRE1HS1 = WIRELESSHEADSTAGEANALOGGROUPBASE + 0 + 0 + 0 + 48
 WirelessHeadStageReservedCRE1HS1 = WIRELESSHEADSTAGEANALOGGROUPBASE + 0 + 0 + 1 + 48
 WirelessHeadStageReservedBRE1HS2 = WIRELESSHEADSTAGEANALOGGROUPBASE + 0 + 2 + 0 + 48
 WirelessHeadStageReservedCRE1HS2 = WIRELESSHEADSTAGEANALOGGROUPBASE + 0 + 2 + 1 + 48
 WirelessHeadStageReservedBRE1HS3 = WIRELESSHEADSTAGEANALOGGROUPBASE + 0 + 4 + 0 + 48
 WirelessHeadStageReservedCRE1HS3 = WIRELESSHEADSTAGEANALOGGROUPBASE + 0 + 4 + 1 + 48
 WirelessHeadStageReservedBRE1HS4 = WIRELESSHEADSTAGEANALOGGROUPBASE + 0 + 6 + 0 + 48
 WirelessHeadStageReservedCRE1HS4 = WIRELESSHEADSTAGEANALOGGROUPBASE + 0 + 6 + 1 + 48
 WirelessHeadStageReservedBRE2HS1 = WIRELESSHEADSTAGEANALOGGROUPBASE + 8 + 0 + 0 + 48
 WirelessHeadStageReservedCRE2HS1 = WIRELESSHEADSTAGEANALOGGROUPBASE + 8 + 0 + 1 + 48
 WirelessHeadStageReservedBRE2HS2 = WIRELESSHEADSTAGEANALOGGROUPBASE + 8 + 2 + 0 + 48
 WirelessHeadStageReservedCRE2HS2 = WIRELESSHEADSTAGEANALOGGROUPBASE + 8 + 2 + 1 + 48
 WirelessHeadStageReservedBRE2HS3 = WIRELESSHEADSTAGEANALOGGROUPBASE + 8 + 4 + 0 + 48
 WirelessHeadStageReservedCRE2HS3 = WIRELESSHEADSTAGEANALOGGROUPBASE + 8 + 4 + 1 + 48
 WirelessHeadStageReservedBRE2HS4 = WIRELESSHEADSTAGEANALOGGROUPBASE + 8 + 6 + 0 + 48
 WirelessHeadStageReservedCRE2HS4 = WIRELESSHEADSTAGEANALOGGROUPBASE + 8 + 6 + 1 + 48
 IFDigChannelsGroup = INTERFACEDIGITALCHANNELSGROUP,
 AudioTestChannelGroup = AUDIOTESTCHANNELGROUP,
 PacketFrameContextGroup = PACKETFRAMECONTEXTGROUP }
    Enumerates the W2100 Channel Groups of Datastream

    enum class SCUDacgGroupChannelEnumNet {

 SCU1ElectrodeGroupHS1 = 0x00,
 SCU1ElectrodeGroupHS2 = 0x01,
 SCU1ElectrodeGroupHS3 = 0x02,
 SCU1ElectrodeGroupHS4 = 0x03.
 SCU2ElectrodeGroupHS1 = 0x08,
 SCU2ElectrodeGroupHS2 = 0x09,
 SCU2ElectrodeGroupHS3 = 0x0A,
 SCU2ElectrodeGroupHS4 = 0x0B,
 InterfaceADCGroup = INTERFACEANALOGCHANNELSGROUP,
 STG1DACSignalGroup = 0x40,
 STG2DACSignalGroup = 0x41,
```

```
DSPAnalogGroup = DSPDATACHANNELSGROUP,
 DSPDigitalGroup = 0xA0,
 IFDigChannelsGroup = INTERFACEDIGITALCHANNELSGROUP,
 STG1TriggerStatusGroup = 0x90,
 STG1SidebandsGroup = 0x91,
 STG2TriggerStatusGroup = 0x98,
 STG2SidebandsGroup = 0x99.
 AudioTestChannelGroup = AUDIOTESTCHANNELGROUP,
 PacketFrameContextGroup = PACKETFRAMECONTEXTGROUP }
    Enumerates the SCU Channel Groups of Datastream
 enum class MEA2100_256DacqGroupChannelEnumNet {
 HS1ElectrodeGroup = 0x00,
 HS2ElectrodeGroup = 0x08,
 InterfaceADCGroup = INTERFACEANALOGCHANNELSGROUP,
 STG1DACSignalGroup = 0x40,
 STG2DACSignalGroup = 0x41,
 DSPAnalogGroup = DSPDATACHANNELSGROUP,
 DSPDigitalGroup = 0xA0,
 IFDigChannelsGroup = INTERFACEDIGITALCHANNELSGROUP,
 STG1TriggerStatusGroup = 0x90,
 STG1SidebandsGroup = 0x91,
 STG2TriggerStatusGroup = 0x98,
 STG2SidebandsGroup = 0x99,
 AudioTestChannelGroup = AUDIOTESTCHANNELGROUP,
 PacketFrameContextGroup = PACKETFRAMECONTEXTGROUP }
    Enumerates the MEA2100-256 Channel Groups of Datastream

    enum class DacqMeaGroupTypeEnumNet {

 AnalogGroup = ANALOG_GROUP,
 DigitalGroup = DIGITAL_GROUP ,
 FrameContextGroup = FRAME_CONTEXT_GROUP }
    Enumerations of CMOS MEA Groups to detect wether it is an Analog, Digital or Frame Context Group

    enum class CMOSMeaValueUnitEnumNet {

 NoUnit = 0x00.
 NanoVolt = 0x11
 PicoAmpere = 0x21,
 NanoAmpere = 0x22,
 MicroAmpere = 0x23,
 MilliDegreeCelsius = 0x31 }
    Enumerations of CMOS MEA Units of Values in Data stream

    enum class CMOSMeaInterfaceADCEnumNet {

 IFChannel1 = 0x01,
 IFChannel2 = 0x02,
 IFChannel3 = 0x04,
 IFChannel4 = 0x08,
 IFChannel5 = 0x10,
 IFChannel6 = 0x20.
 IFChannel7 = 0x40.
 IFChannel8 = 0x80 }
    Enumerations of CMOS MEA IF Analog Channels Group Bitmask

    enum class CMOSMeaHeadstage1NCBathCurrentEnumNet { NCBathCurrent = 0x01 }

    Enumerations of CMOS MEA HS Current Monitoring Channels Group Bitmask

    enum class CMOSMeaHeadstage1NCCol2CurrentEnumNet { NCCol2Current = 0x01 }

    Enumerations of CMOS MEA HS Current Monitoring Channels Group Bitmask

    enum class CMOSMeaHeadstage1NChipTempEnumNet { NChipTemperature = 0x01 }

    Enumerations of CMOS MEA HS Temperature Monitoring Channels Group Bitmask
```

```
    enum class CMOSMeaSTG1DACSignalEnumNet {

 DAC1Channel = 0x01,
 DAC2Channel = 0x02,
 DAC3Channel = 0x04,
 DAC4Channel = 0x08 }
     Enumerations of CMOS MEA DAC Stimulation Channels Group Bitmask

    enum class CMOSMealFDigChannelEnumNet {

 DigitalMux = 0x01,
 DigitalInPort = 0x02,
 DigitalOutReg = 0x04,
 FeedbackReg = 0x08,
 DigitalReg = 0x10,
 AuxPort = 0x20 }
     Enumerations of CMOS MEA IF Digital Channels Group Bitmask

    enum class CMOSMeaHS1SidebandEnumNet {

 SBSVector1 = 0x01,
 SBSVector2 = 0x02,
 SBSVector3 = 0x04,
 SBSVector4 = 0x08 }
    Enumerations of CMOS MEA HS STG Sideband Channels Group Bitmask

    enum class CMOSMeaHS1TriggerStatusEnumNet {

 TriggerStatus1 = 0x01,
 TriggerStatus2 = 0x02,
 TriggerStatus3 = 0x04,
 TriggerStatus4 = 0x08 }
    Enumerations of CMOS MEA HS STG Trigger Status Channels Group Bitmask

    enum class AnalogUnitEnumNet {

 Unknown,
 Volt,
 Ampere,
 Kelvin }

    enum class CMOSMeaPacketFrameContextGroupEnumNet {

 SOFAndCTRLword = 0x01.
 ChecksumAndPacketCounter = 0x02,
 Timestamp = 0x04,
 EOFAndCRC = 0x08 }
     Enumerations of CMOS MEA HS STG Trigger Status Channels Group Bitmask
• enum class CMOSMeaBathModeEnumNet {
 Ground = 0x02,
 Stimulation = 0x01.
 CurrentMeasure = 0x00 }
     Enumerations of CMOS MEA Bath Mode

    enum class PatchServAdcModeEnumNet {

 Normal = 0,
 CatchAmp = 1 }

    enum class RoboCurrentModeEnumNet {

 Off = ROBO CURRENT OFFMODE,
 Break = ROBO CURRENT BREAKMODE,
 Standby = ROBO_CURRENT_STANDBYMODE,
 Reference = ROBO CURRENT REFERENCEMODE,
 Movement = ROBO CURRENT MOVEMENTMODE }

    enum class TeerClampModeEnumNet {

 ClampModeVoltage = 0,
 ClampModeCurrent = 1,
 ClampModeOpen = 2,
 ClampModeInternalCalibration = 3 }
```

```
    enum class TeerWaveformEnumNet {

 Rectangle = 0,
 Sine = 1 }

    enum class UssingClampModeEnumNet {

 VoltageClamp = 1,
 CurrentClamp = 2,
 OpenClamp = 3,
 Standby = 4,
 ElectrodeOffset = 5 }

    enum class UssingUnitEnumNet {

 Volt = 0,
 Ampere = 1,
 State = 2 }

    enum class PlateClampEnumNet {

 Close = 0,
 Open = 1,
 Stop = 2

    enum class PlateClampLockEnumNet {

 Lock = 0,
 Unlock = 1 }

    enum class MultiwellPlateTypeEnumNet {

 Plate Dummy = HS PLATETYPE 0,
 Plate 24W700 100FMA = 1.
 Plate_24W030MGA = 2,
 Plate_{72}W500_{100}PMA = 3,
 Plate 72W500 100FMA = 5,
 Plate_24W700_100FMB = HS_PLATETYPE_6,
 Plate_96W700_100FMA = HS_PLATETYPE_7,
 Plate_96W300_80_1152FMA = HS_PLATETYPE_33,
 Plate 96W400 80 1152FMB = HS PLATETYPE 36,
 Plate_24W300_30_1152GBA = HS_PLATETYPE_40,
 Plate_24W700_100FMC = HS_PLATETYPE_44,
 Plate_96W700_100FMB = HS_PLATETYPE_48,
 Plate 96W700 100GBC = HS PLATETYPE 49,
 Plate 96W700 100GBD = HS PLATETYPE 51,
 Plate 24W700 100PBA = HS PLATETYPE 60,
 Plate Dummy 126 = HS PLATETYPE 126,
 Plate 24W300 30GMA = HS PLATETYPE 193,
 Plate_96W700_100GMA = 194,
 Plate 24W300 30GBA = HS PLATETYPE 195,
 Plate 96W700 100GBA = HS PLATETYPE 224,
 Plate 24W300 30GBB = HS PLATETYPE 232,
 Plate_96W700_100GBB = HS_PLATETYPE_244,
 No_Plate = 255 }
enum class FpgaldEnumNet {
 DeviceNotConnected = FPGA ID NOT CONNECTED,
 Mea2100Interfaceboard = FPGA ID MEA2100 IF,
 Mea2100Headstage = FPGA ID MEA2100 HS,
 Mea2100STG = FPGA ID MEA2100 STG,
 MultiwellHeadstage = FPGA_ID_HS_MULTIWELL,
 MultiwellInterfaceboard = FPGA_ID_IF_MULTIWELL,
 TbsiDacqInterfaceboard = FPGA ID TBSI DACQ IF,
 TbsiDacqHeadstage = FPGA_ID_TBSI_DACQ_HS,
 CmosMeaInterfaceboard = FPGA ID CMOS MEA IF,
 CmosMeaHeadstage = FPGA ID CMOS MEA HS.
 Mea2100MultiwellIFB2 = FPGA_ID_MEA2100_MW_IFB2,
 Me2100Interfaceboard = FPGA_ID_ME2100_IFB,
 Me2100InvivoSignalCollectorUnit = FPGA_ID_ME2100_InvivoSCU,
```

```
Me2100InvitroSignalCollectorUnit = FPGA ID ME2100 InvitroSCU,
Me2100 32XilinxHeadstage = FPGA ID ME2100 32 XILINX HS.
Me2100_32PICiCE40Headstage = FPGA_ID_ME2100_32_PIC_ICE40_HS ,
Mea2100_256Interfaceboard = FPGA_ID_MEA2100_256_IF,
Mea2100_256Headstage = FPGA_ID_MEA2100_256_HS,
W2100Interfaceboard = FPGA ID W2100 IF,
W2100WirelessReceiver = FPGA ID W2100 REC.
W2100WirelessReceiverAnalog = FPGA ID W2100 REC ANALOG,
Mea2100Mini60PICiCE40Headstage = FPGA_ID_MEA2100MINI60_PIC_ICE40_HS,
Mea2100BetaScreenHeadstage = FPGA ID MEA2100BETASCREEN HS.
Me2100UPA32Headstage = FPGA ID ME2100UPA32 HS,
MultiwellMiniHeadstage = FPGA_ID_MULTIWELL_MINI_HS,
Mea2100Mini120Headstage = FPGA_ID_MEA2100MINI120_HS ,
Mea2100Mini60ECP5Headstage = FPGA ID MEA2100MINI60 ECP5 HS,
eCubeHeadstage = FPGA_ID_ECUBE_HS,
Me2100Graphene16_32Headstage = FPGA_ID_ME2100_GRAPHENE_16_32_HS,
GrapheneFlagshipCore2Headstage = FPGA ID GRAPHENE FLAGSHIP CORE 2 HS,
WholeCellPatchHeadstage = FPGA ID WHOLE CELL PATCH HS,
InterfaceBoard2 = FPGA ID INTERFACEBOARD2,
W2100IFB2 = FPGA ID W2100 IFB2,
CmosmealFB2 = FPGA ID CMOS MEA IFB2,
Mea2100LiteHeadstage = FPGA ID MEA2100 LITE HS,
LIH30Interfaceboard = FPGA_ID_LIH30_USB_IF,
LIH30ADCCtrl = FPGA ID LIH30 ADC CTRL,
UssingRail = FPGA ID USSING RAIL,
UssingChamber = FPGA_ID_USSING_CHAMBER,
IFB2GoldenInterfaceboard = FPGA_ID_IFB2_GOLDEN,
IFB30GoldenInterfaceboard = FPGA ID IFB30 GOLDEN.
DeviceHasNoHeadstage = FPGA ID HAS NO HS }
enum class HeadstageIdEnumNet {
DeviceNotConnected = FPGA_ID_NOT CONNECTED ,
Mea2100 = FPGA ID MEA2100 HS,
Multiwell = FPGA ID HS MULTIWELL,
TbsiDacq = FPGA ID TBSI DACQ HS,
CmosMea = FPGA ID CMOS MEA HS,
InvivoSignalCollectorUnit = FPGA ID ME2100 InvivoSCU,
InvitroSignalCollectorUnit = FPGA_ID_ME2100_InvitroSCU,
Mea2100 256 = FPGA ID MEA2100 256 HS,
W2100WirelessReceiver = FPGA ID W2100 REC,
W2100WirelessReceiverAnalog = FPGA_ID_W2100_REC_ANALOG,
Mea2100_Lite = FPGA_ID_MEA2100_LITE_HS,
LIH30ADCCtrl = FPGA_ID_LIH30_ADC_CTRL,
DeviceHasNoHeadstage = FPGA ID HAS NO HS }
enum class SCU_HeadstageIdEnumNet {
DeviceNotConnected = FPGA_ID_NOT_CONNECTED ,
Me2100 32Xilinx = FPGA ID ME2100 32 XILINX HS,
Me2100 32PICiCE40 = FPGA ID ME2100 32 PIC ICE40 HS,
Mea2100Mini60PICiCE40 = FPGA ID MEA2100MINI60 PIC ICE40 HS,
Mea2100BetaScreen = FPGA ID MEA2100BETASCREEN HS,
Me2100UPA32 = FPGA ID ME2100UPA32 HS,
MultiwellMini = FPGA_ID_MULTIWELL_MINI_HS,
Mea2100Mini120 = FPGA ID MEA2100MINI120 HS
Mea2100Mini60ECP5 = FPGA ID MEA2100MINI60 ECP5 HS,
eCube = FPGA ID ECUBE HS,
Me2100Graphene16_32 = FPGA_ID_ME2100_GRAPHENE_16_32_HS,
GrapheneFlagshipCore2 = FPGA_ID_GRAPHENE_FLAGSHIP_CORE_2_HS,
WholeCellPatch = FPGA ID WHOLE CELL PATCH HS,
DeviceHasNoHeadstage = FPGA ID HAS NO HS }
```

```
    enum class UsbVendorldEnumNet {

 Unknown = -1,
 None = 0,
 Renesas = 0x1912,
 ASMedia = 0x1b21,
 Intel = 0x8086 }
• enum class FilterCalculationDirectionEnumNet {
 DoubleToInt = 0,
 IntToDouble = 1 }
enum class FilterBandEnumNet {
 Unknown = 0,
 Lowpass = 1,
 Highpass = 2 }

    enum class FilterFamilyEnumNet {

 Unknown = 0,
 Bessel = 1,
 Butterworth = 2,
 RC = 3 }
enum class FilterTypeEnumNet {
 Hardware = 0,
 Software = 1 }
enum class FilterAttributeEnumNet {
 PreCommaB = 0.
 PostCommaB = 1,
 CommaPositionB = 2,
 PreCommaA = 3,
 PostCommaA = 4,
 CommaPositionA = 5 }
enum class AnalogOut_DAC_Range_EnumNet {
 PlusMinus2Comma5Volts = 0,
 PlusMinus5Volts = 1,
 PlusMinus10Volts = 2 }
enum class PP_Pump_Mode_Type_EnumNet {
 Manual = 1,
 Digital = 2,
 Analog = 3 }

    enum class MbcChargingModeEnumNet {

 StorageCharge = 0,
 FullCharge = 1 }

    enum class MbcRatedCapacityEnumNet {

 rc30mAh = 0.
 rc100mAh = 1,
 rc200mAh = 2,
 rc300mAh = 3,
 rcGreater300mAh = 4 }

    enum class MbcChannelStateEnumNet {

 csldleNoBattery = 0,
 csldleChargeFinished = 1,
 csCapacityTestPrecharge = 2,
 csCapacityTestDischarge = 3,
 csRefreshBattery = 4,
 csCharge = 5,
 csDischarge = 6,
 csError = 7 }
• enum class PulseGenerator_Mode_EnumNet {
 Off = 0,
 AlwaysOn = 1,
```

```
Gated_Low_Active = 2,
 Gated_High_Active = 3 }
• enum class LIH30_ADC_Channel_EnumNet {
 User\_ADC\_0 = 0,
 User ADC 1 = 1,
 User ADC 2 = 2,
 User ADC 3 = 3,
 User\_ADC\_4 = 4,
 Test ADC EPC10 = 5,
 ModulA\_ADC0 = 6,
 ModulA\_ADC1 = 7,
 ModulA\_ADC2 = 8,
 ModulA ADC3 = 9,
 ModulB\_ADC0 = 10,
 ModulB\_ADC1 = 11,
 ModulB\_ADC2 = 12,
 ModulB ADC3 = 13,
 ModulC_ADC0 = 14,
 ModulC_ADC1 = 15,
 ModulC ADC2 = 16,
 ModulC ADC3 = 17,
 ModulD\_ADC0 = 18,
 ModulD\_ADC1 = 19,
 ModulD\_ADC2 = 20,
 ModuID_ADC3 = 21 }
• enum class LIH30_DAC_Channel_EnumNet {
 User DAC 0 = 0,
 User DAC 1 = 1,
 User_DAC_2 = 2,
 Test_DAC_EPC10 = 3,
 ModulA DAC0 = 4,
 ModulA DAC1 = 5,
 ModulB_DAC0 = 6,
 ModulB_DAC1 = 7,
 ModulC DAC0 = 8,
 ModulC_DAC1 = 9,
 ModulD DAC0 = 10,
 ModulD DAC1 = 11 }
• enum class LIH30_EPC10_Bus_EnumNet {
 A = 0,
 B = 1
enum class W2100_Accel_Gyro_Select_EnumNet {
 Off = 0,
 GyroOnly = 1,
 AccelOnly = 2,
 Both = 3
    enumerates the accelerometer configuration on the W2100 device

    enum class WvcValveModeEnumNet {

 Manual = WVC_VALVE_MODE_MANUAL,
 Digital = WVC_VALVE_MODE_DIGITAL,
 Analog = WVC_VALVE_MODE_ANALOG,
 Table = WVC VALVE MODE TABLE }
    enumerates Wvc valve mode

    enum class WvcDisplayModeEnumNet {

 Work = WVC DISPLAY MODE WORK,
 PC = WVC DISPLAY MODE PC,
 Settings = WVC_DISPLAY_MODE_SETTINGS,
 TouchTest = WVC_DISPLAY_MODE_TOUCH_TEST }
```

```
enumerates Wvc display mode
enum class PortDirectionEnumNet {
 Output = 0,
 Input = 1 }
     enumerates a port direction

    enum class StimulationLayoutConfigurationEnumNet {

 SingleWell = 1,
 SixWell = 2,
 NineWell = 3 }
     enumerates the layout configuration for the MEA2100-256 device

    enum class ReferenceElectrodeSwitchPositionEnumNet {

 off = 0,
 Ref8 = 1,
 Ref16 = 2,
 Ref24 = 3,
 Ref32 = 4
     enumerates the possible positions of the reference electrode switch of the ME2100 device

    enum class ReferenceElectrodeModeEnumNet {

 SubtractionOff = 0,
 SubtractFromAllOther = 1,
 SubtractFromReferenceElectrodeOnly = 2,
 SubtractFromAll = 3 }
     enumerates the electrode subtraction modes

    enum class DigitalDatastreamEnableEnumNet {

 None = 0x0000,
 Mux = 0x0001,
 MuxOtherDevice = 0x0002,
 DigitalInReserverd = 0x0004,
 DigitalIn = 0x0008,
 DigitalOut = 0x0010,
 DigitalOutReserved = 0x0020,
 RegisterLow = 0x0040,
 RegisterHigh = 0x0080,
 FeedbackLow = 0x0100,
 FeedbackHigh = 0x0200,
 Aux = 0x0400,
 PeriodicPulse = 0x0800,
 DigOutStim = 0x1000,
 Hs1Digital = 0x00008000,
 Hs1Trigger = 0x00010000,
 Hs1SidebandLow = 0x00020000,
 Hs1SidebandHigh = 0x00040000,
 Hs2Digital = 0x00800000,
 Hs2Trigger = 0x01000000,
 Hs2SidebandLow = 0x020000000,
 Hs2SidebandHigh = 0x04000000 }
     enumerates the streams available as digital datastream
enum class IoVoltageEnumNet {
 Voltage_3V3 = IFB2_IO_VOLTAGE_3V3,
 Voltage 5V0 = IFB2 IO VOLTAGE 5V0 }
     enumerates the I/O Voltages available on the IFB2

    enum class EnSTG200x STATUS {

 OK,
 NOT_CONNECTED,
 DEVICE_NOT_FOUND }
```

Functions

- public delegate void OnMcsUsbDeviceState (usbSetupPacket_t^ request)
- private delegate void OnMcsUsbDeviceStateCallback (IntPtr pThis, uint32_t size, IntPtr buffer)
- public delegate void OnUpdateFirmwareStatusChange (String[^])
- public delegate void OnUpdateFirmwareProgress (int)
- public delegate void OnDeviceArrivalRemoval (CMcsUsbListEntryNet[^] entry)

Delegate to show a device arrival or removal.

- public delegate void OnStgPollStatus (unsigned int status, StgStatusNet[^] stgStatusNet, array< int >[^] index list)
- public delegate void OnMwPollStatus (unsigned int CurrentTemp, unsigned int PlateState, unsigned int SwitchState)
- public delegate void RoboStatusEventDelegate (array< unsigned char >^ buffer)
- public delegate void OnStg200xDataHandler (uint32_t trigger)
- public delegate void OnStg200xErrorHandler ()
- public delegate void OnChannelData (CMcsUsbDacqNet^{\(\Lambda\)} dacq, int CbHandle, int numFrames)
- public delegate void OnError (String msg, int action)

10.2.1 Enumeration Type Documentation

10.2.1.1 AdapterTypeEnumNet enum AdapterTypeEnumNet [strong]

Enumerates the adapter type of the MEA2100 device.

None	
MEA60	
MEA2x60	
MEA120	
MEA32	
MEA2x32	
Multiwell96	
WirelessTestAdapter	
MEA252	
MEA_2_252_2	
MEA_2_252_2_6Well	
MEA_2_252_2_9Well	
MEA_2_252_2_Test	
TBSI_5	
TBSI_15	
TBSI_31	
TBSI_63	
TBSI_127	
TBSI_Reserved	
Ci4600Intan	
Unknown	
NotApplicable	

10.2.1.2 AnalogOut_DAC_Range_EnumNet enum AnalogOut_DAC_Range_EnumNet [strong]

Enumerator

PlusMinus2Comma5Volts	
PlusMinus5Volts	
PlusMinus10Volts	

10.2.1.3 AnalogSourceEnumNet enum AnalogSourceEnumNet [strong]

Enumerates the analog source of the MEA2100 device.

Enumerator

AnalogSource_HS1	
AnalogSource_HS2	
AnalogSource_IF	

10.2.1.4 AnalogUnitEnumNet enum AnalogUnitEnumNet [strong]

Enumerator

Unknown	
Volt	
Ampere	
Kelvin	

10.2.1.5 CFirmwareDestinationNet enum CFirmwareDestinationNet [strong]

Enumerates the destination processor for the firmware.

FPGA_NORMAL	
DSP	The DSP.
USB	The USB controller.
MCU1	The DSP on the MEA2100 system.
MCSBUS1	
MCSBUS2	

MCSBUS3	
MCSBUS4	
MCSBUS5	
MCSBUS6	
MCSBUS7	
MCSBUS8	
MCSBUS9	
MCSBUS10	
MCSBUS11	
MCSBUS12	
MCSBUS13	
MCSBUS14	
MCSBUS15	
MCSBUS0	
BUSNUMBER1	
BUS1MCSBUS1	
BUS1MCSBUS2	
BUSNUMBER2	
BUS2MCSBUS1	
BUS2MCSBUS2	
PIC	
PIC2	
PIC3	
PIC4	
PIC5	
PIC6	
PIC7	
PIC8	
PIC9	
PIC10	
PIC11	
PIC12	
ChannelPIC	
Bootstrap	
BootstrapOtherCypress	
ALTERA	
FPGA2	
FPGA3	
FPGA4	
FPGA5	
FPGA6	
FPGA7	
FPGA8	
FPGA9	
FPGA10	
FPGA11	
FPGA12	
FPGA13	
FPGA14	
FPGA15	

FPGA16	
FPGA GOLD	
ALTERA GOLD	
FPGA2 GOLD	
FPGA3 GOLD	
FPGA4 GOLD	
FPGA5 GOLD	
FPGA6 GOLD	
FPGA7 GOLD	
FPGA8 GOLD	
FPGA9 GOLD	
FPGA10 GOLD	
FPGA11 GOLD	
FPGA11_GOLD	
FPGA12_GOLD	
FPGA14_GOLD FPGA15_GOLD	
FPGA15_GOLD	
FPGA_BASE ALTERA BASE	
FPGA2_BASE	
FPGA3_BASE	
FPGA4_BASE	
FPGA5_BASE	
FPGA6_BASE	
FPGA7_BASE	
FPGA8_BASE	
FPGA9_BASE	
FPGA10_BASE	
FPGA11_BASE	
FPGA12_BASE	
FPGA13_BASE	
FPGA14_BASE	
FPGA15_BASE	
FPGA16_BASE	
FPGA_BOOTSTRAP	
ALTERA_BOOTSTRAP	
DEST_TARGET1	
DEST_TARGET2	
DEST_TARGET3	
DEST_TARGET4	
DEST_TARGET5	
DEST_TARGET6	
DEST_TARGET7	
DEST_TARGET8	
DEST_TARGET9	
DEST_TARGET10	
DEST_TARGET11	
DEST_TARGET12	

DEST_TARGET13	
DEST_TARGET14	
DEST_TARGET15	
DEST_TARGET_MASK	
DEST_FX3_TARGET_MASK	
ALTERA_TARGET1	
ALTERA_TARGET2	
ALTERA_TARGET3	
USB_TARGET1	
USB_TARGET2	
USB_TARGET3	
UnknownDest	

10.2.1.6 CMOSMeaBathModeEnumNet enum CMOSMeaBathModeEnumNet [strong]

Enumerations of CMOS MEA Bath Mode

Enumerator

Ground	
Stimulation	
CurrentMeasure	

10.2.1.7 CMOSMeaHeadstage1NCBathCurrentEnumNet enum CMOSMeaHeadstage1NCBathCurrentEnumNet [strong]

Enumerations of CMOS MEA HS Current Monitoring Channels Group Bitmask

Enumerator

NCBathCurrent

10.2.1.8 CMOSMeaHeadstage1NCCol2CurrentEnumNet enum CMOSMeaHeadstage1NCCol2CurrentEnumNet [strong]

Enumerations of CMOS MEA HS Current Monitoring Channels Group Bitmask

Enumerator

NCCol2Current

10.2.1.9 CMOSMeaHeadstage1NChipTempEnumNet enum CMOSMeaHeadstage1NChipTempEnumNet [strong]

Enumerations of CMOS MEA HS Temperature Monitoring Channels Group Bitmask

Enumerator

NChipTemperature

10.2.1.10 CMOSMeaHS1SidebandEnumNet enum CMOSMeaHS1SidebandEnumNet [strong]

Enumerations of CMOS MEA HS STG Sideband Channels Group Bitmask

Enumerator

SBSVector1	
SBSVector2	
SBSVector3	
SBSVector4	

10.2.1.11 CMOSMeaHS1TriggerStatusEnumNet enum CMOSMeaHS1TriggerStatusEnumNet [strong]

Enumerations of CMOS MEA HS STG Trigger Status Channels Group Bitmask

Enumerator

TriggerStatus1	
TriggerStatus2	
TriggerStatus3	
TriggerStatus4	

10.2.1.12 CMOSMealFDigChannelEnumNet enum CMOSMealFDigChannelEnumNet [strong]

Enumerations of CMOS MEA IF Digital Channels Group Bitmask

DigitalMux	
DigitalInPort	
DigitalOutReg	

FeedbackReg	
DigitalReg	
AuxPort	

10.2.1.13 CMOSMeaInterfaceADCEnumNet enum CMOSMeaInterfaceADCEnumNet [strong]

Enumerations of CMOS MEA IF Analog Channels Group Bitmask

Enumerator

IFChannel1	
IFChannel2	
IFChannel3	
IFChannel4	
IFChannel5	
IFChannel6	
IFChannel7	
IFChannel8	

10.2.1.14 CMOSMeaPacketFrameContextGroupEnumNet enum CMOSMeaPacketFrameContextGroupEnumNet [strong]

Enumerations of CMOS MEA HS STG Trigger Status Channels Group Bitmask

Enumerator

SOFAndCTRLword	
ChecksumAndPacketCounter	
Timestamp	
EOFAndCRC	

10.2.1.15 CMOSMeaSTG1DACSignalEnumNet enum CMOSMeaSTG1DACSignalEnumNet [strong]

Enumerations of CMOS MEA DAC Stimulation Channels Group Bitmask

D	AC1Channel	
D	AC2Channel	
D	AC3Channel	
D	AC4Channel	

10.2.1.16 CMOSMeaValueUnitEnumNet enum CMOSMeaValueUnitEnumNet [strong]

Enumerations of CMOS MEA Units of Values in Data stream

Enumerator

NoUnit	
NanoVolt	
PicoAmpere	
NanoAmpere	
MicroAmpere	
MilliDegreeCelsius	

10.2.1.17 DacqGroupChannelEnumNet enum DacqGroupChannelEnumNet [strong]

Enumerates the Channel Groups of Datastream

Enumerator

HeadstageElectrodeGroup	
InterfaceADCGroup	
DSPDataGroup	
Headstage1NCBathCurrentGroup	
Headstage1NCCol2CurrentGroup	
Headstage1NChipTempGroup	
STG1DACSignalGroup	
LIH30UserADCGroup	
LIH30TestADCGroup	
LIH30ADCModulesGroup	
IFDigChannelsGroup	
STG1SidebandsGroup	
STG1TriggerStatusGroup	
DACQ1DigitalGroup	
AudioTestChannelGroup	
PacketFrameContextGroup	

10.2.1.18 DacqMeaGroupTypeEnumNet enum DacqMeaGroupTypeEnumNet [strong]

Enumerations of CMOS MEA Groups to detect wether it is an Analog, Digital or Frame Context Group

AnalogGroup	
DigitalGroup	
FrameContextGroup	

10.2.1.19 DataModeEnumNet enum DataModeEnumNet [strong]

Enumerates the data mode of the device, either 16, 24 or 32 bit, can be signed or unsigned.

Enumerator

Unsigned_16bit	
Unsigned_24bit	
Unsigned_32bit	
Signed_16bit	
Signed_24bit	
Signed_32bit	

10.2.1.20 DeviceEnumNet enum DeviceEnumNet [strong]

Enumerates the group of MCS devices to connect to.

MCS_DEVICE_ANY	To connect to any MCS device.
MCS_GENERIC_DEVELOPMENT_DEVICE	Please use this only for MCS internal development.
MCS_DEVICE_USB	To connect to any MCS USB device.
MCS_MCCARD_DEVICE	Connect to an MC_Card.
MCS_STG_DEVICE	Connect to an MCS device with STG capability.
MCS_MC_STIMULUS_DEVICE	Devices which should be accessible from MC_Stimulus.
MCS_MEAUSB_DEVICE	Connect to an MCS MeaUsb device.
MCS_MEA_DEVICE	Connect to an MCS MeaUsb device.
MCS_OCTOPOT_DEVICE	Connect to an MCS Octopot device.
MCS_TERSENS_DEVICE	Connect to an MCS Tersens device.
MCS_PGA_DEVICE	Connect to an MCS PGA device.
MCS_PCX_DEVICE	Connect to an MCS PCX device.
MCS_TCX_DEVICE	Connect to an MCS TCX device.
MCS_FCX_DEVICE	Connect to an MCS FCX device.
MCS_RETINA_LED_DEVICE	Connect to an MCS RetineLed device.
MCS_MEA_SWITCH_DEVICE	Connect to an MCS Mea Switch device.
MCS_MEA_IMPEDANCE_DEVICE	Connect to an MCS Mea Impedance device.
MCS_CHANNELTEST_DEVICE	Connect to an MCS ChannelTest device.
MCS_SW2TO64_DEVICE	Connect to an MCS SW2TO64 device.

MCS_RETINA_AMS_DONGLE	Connect to an MCS Retina AMS Dongle (Radio device)
MCS_PATHIDENT_DEVICE	Connect to an MCS Pathident device.
MCS_ROBO_DEVICE	Connect to an MCS Robo Platform device.
MCS_ROBOOCYTE2_DEVICE	Connect to an MCS Roboocyte2 device.
MCS_ROBOINJECT_DEVICE	Connect to an MCS Robolnject device.
MCS_HICLAMP_DEVICE	Connect to an MCS HiClamp device.
MCS_PATCHSERVER_DEVICE	Connect to an MCS PatchServer device.
MCS_ENCAPSULATOR_DEVICE	Connect to an MCS Encapsulator device.
MCS_MEASURETABLE_DEVICE	Connect to an MCS Encapsulator device.
MCS_FYI_DEVICE	Connect to an MCS FYI device.
MCS_HLA_DEVICE	Connect to an MCS HLA device.
MCS_PPS_DEVICE	Connect to an MCS PPS device.
MCS_PPS5_DEVICE	Connect to an MCS PPS5 device.
MCS_OKUVISION_STIMULATOR_DEVICE	Connect to an Okuvision Stimulator device.
MCS_NF_GEN_DEVICE	Connect to an MCS NF-Gen device.
MCS_SAFEIS_DEVICE	Connect to an MCS SafeIS device.
MCS_PERISTALTIC_PUMP_DEVICE	Connect to an MCS PeristalticPump device.
MCS_EXTERN_BC_TESTER_DEVICE	Connect to an ExternBCTester device.
MCS_EXTERN_D_TESTER_DEVICE	Connect to an ExternDTester device.
MCS_SOFTWARE_DONGLE_DEVICE	Connect to an Software Dongle device.
MCS_MEA_CLEAN_DEVICE	Connect to a MEA Clean device.
MCS_MEA_COAT_DEVICE	Connect to a MEA Clean device.
MCS_SMARTIMPLANT_DEVICE	Connect to a SmartImplant device.
MCS_MBC08_DEVICE	Connect to a MultiBatteryCharger device.
MCS_PEDOTER_DEVICE	Connect to a Pedoter device.
MCS_PPC_DEVICE	COnnect to a PPC device.
WARNER_VALVE_CONTROL_DEVICE	COnnect to a Warner Valve Control device.
WARNER_USSING_DEVICE	COnnect to a Warner Valve Control device.
HEKA_LIH3_DEVICE	Connect to a HEKA LIH3 device.
ALA_VC3_DEVICE	Connect to an ALA VC3 Valve Commander.
MCS_DEVICE_USB_CYPRESS	Connect to a Cypress USB device.
	

$\textbf{10.2.1.21} \quad \textbf{DigitalDatastreamEnableEnumNet} \quad \texttt{enum DigitalDatastreamEnableEnumNet} \quad \texttt{[strong]}$

enumerates the streams available as digital datastream

None	No digital datastream.
Mux	16 bits from the standard MUX datastream.
MuxOtherDevice	The 16 bits of the standard MUX datastream used by the other virtual device.
DigitalInReserverd	The lower 16 bits of the Digital IN port, these ports are on the device by default used as Digital OUT, thus not available as Digital IN.
DigitalIn	The upper 16 bits of the Digital IN port, use when Digital IN datastream is needed.
DigitalOut	The lower 16 bits of the Digital OUT port, use when Digital OUT datastream is needed.

DigitalOutReserved	The upper 16 bits of the Digital OUT port, these ports are on the device by default used as Digital IN, thus not available as Digital OUT.
RegisterLow	The lower 16 bits of the digital register.
RegisterHigh	The upper 16 bits of the digital register.
FeedbackLow	The lower 16 bits of the realtime feedback register.
FeedbackHigh	The upper 16 bits of the realtime feedback register.
Aux	The 2 bits of the AUX port.
PeriodicPulse	The 8 bits of the Periodic Pulse Generator (Video-Sync).
DigOutStim	The 16 bits of the Digital Out Stimulator.
Hs1Digital	Headstage 1 digital signals.
Hs1Trigger	Headstage 1 trigger signals.
Hs1SidebandLow	Headstage 1 lower 16 bits of sideband data.
Hs1SidebandHigh	Headstage 1 upper 16 bits of sideband data.
Hs2Digital	Headstage 2 digital signals.
Hs2Trigger	Headstage 2 trigger signals.
Hs2SidebandLow	Headstage 2 lower 16 bits of sideband data.
Hs2SidebandHigh	Headstage 2 upper 16 bits of sideband data.

10.2.1.22 DigitalSourceEnumNet enum DigitalSourceEnumNet [strong]

Enumerates the digital source of the MEA2100 device.

DigitalInOfOutPort	
DigitalIn	
DigitalPulse	
Feedback	
AuxIn	
Zero	
One	
HS1Trigger1Status	
HS1Trigger2Status	
HS1Trigger3Status	
HS1Trigger4Status	
HS1Trigger5Status	
HS1Trigger6Status	
HS1Sideband1	
HS1Sideband2	
HS1Sideband3	
HS1Sideband4	
HS1Sideband5	
HS1Sideband6	
HS2Trigger1Status	
HS2Trigger2Status	

HS2Trigger3Status	
HS2Trigger4Status	
HS2Trigger5Status	
HS2Trigger6Status	
HS2Sideband1	
HS2Sideband2	
HS2Sideband3	
HS2Sideband4	
HS2Sideband5	
HS2Sideband6	
PulseGenerator	
DigitalOutStimulator	
DigitalData	
DeviceRunStatus	
LastPosition	

10.2.1.23 DigitalStimulatorTriggerEventEnumNet enum DigitalStimulatorTriggerEventEnumNet [strong]

Enumerates start/stop event for DigOut/DigStim trigger. /summary>

Enumerator

Start	
Stop	

10.2.1.24 DigitalStimulatorTriggerSlopeEnumNet enum DigitalStimulatorTriggerSlopeEnumNet [strong]

Enumerates start/stop conditions for DigOut/DigStim trigger. /summary>

Enumerator

Falling	
Rising	

10.2.1.25 DigitalTargetEnumNet enum DigitalTargetEnumNet [strong]

Enumerates the Digital Targets for Digital Sources

Digout	
Digstream	
DacqTrigger	
StgTrigger	
StgListModeTrigger	
DigOutStimulatorStartTrigger	
DigOutStimulatorStopTrigger	
DigStreamToReceiver	

10.2.1.26 ElectrodeDacMuxEnumNet enum ElectrodeDacMuxEnumNet [strong]

Enumerates the setting of the Stimulation DAC Multiplexer.

Enumerator

Ground	Connect the electrode to Ground while stimulation is active.
Stg1	Connect the electrode tp STG 1 while stimulation is active.
Stg2	Connect the electrode tp STG 2 while stimulation is active.
Stg3	Connect the electrode tp STG 3 while stimulation is active.

10.2.1.27 ElectrodeModeEnumNet enum ElectrodeModeEnumNet [strong]

Enumerates the mode of each electrode, can be automatic or manual. In automatic mode, the blanking of the electrode is controlled by the sideband signal, in manual mode, the stimulation configuration is independant of the sideband signal.

Enumerator

emAutomatic	
emManual	

10.2.1.28 enCMosMeaChipType enum enCMosMeaChipType [strong]

unknown	
nMos16LV	
nMos32LV	
nMos36LN	
nMos64LN	

10.2.1.29 EnSTG200x_STATUS enum EnSTG200x_STATUS [strong]

Enumerator

OK	
NOT_CONNECTED	
DEVICE_NOT_FOUND	

10.2.1.30 FilterAttributeEnumNet enum FilterAttributeEnumNet [strong]

Enumerator

PreCommaB	
PostCommaB	
CommaPositionB	
PreCommaA	
PostCommaA	
CommaPositionA	

10.2.1.31 FilterBandEnumNet enum FilterBandEnumNet [strong]

Enumerator

Unknown	
Lowpass	
Highpass	

10.2.1.32 FilterCalculationDirectionEnumNet enum FilterCalculationDirectionEnumNet [strong]

Enumerator

DoubleToInt	
IntToDouble	

10.2.1.33 FilterFamilyEnumNet enum FilterFamilyEnumNet [strong]

Unknown	
Bessel	
Butterworth	
RC	

10.2.1.34 FilterTypeEnumNet enum FilterTypeEnumNet [strong]

Enumerator

Hardware	
Software	

10.2.1.35 FpgaldEnumNet enum FpgaldEnumNet [strong]

	_
DeviceNotConnected	
Mea2100Interfaceboard	
Mea2100Headstage	
Mea2100STG	
MultiwellHeadstage	
MultiwellInterfaceboard	
TbsiDacqInterfaceboard	
TbsiDacqHeadstage	
CmosMeaInterfaceboard	
CmosMeaHeadstage	
Mea2100MultiwellIFB2	
Me2100Interfaceboard	
Me2100InvivoSignalCollectorUnit	
Me2100InvitroSignalCollectorUnit	
Me2100_32XilinxHeadstage	
Me2100_32PICiCE40Headstage	
Mea2100_256Interfaceboard	
Mea2100_256Headstage	
W2100Interfaceboard	
W2100WirelessReceiver	
W2100WirelessReceiverAnalog	
Mea2100Mini60PICiCE40Headstage	
Mea2100BetaScreenHeadstage	
Me2100UPA32Headstage	
MultiwellMiniHeadstage	
Mea2100Mini120Headstage	

Mea2100Mini60ECP5Headstage	
eCubeHeadstage	
Me2100Graphene16_32Headstage	
GrapheneFlagshipCore2Headstage	
WholeCellPatchHeadstage	
InterfaceBoard2	
W2100IFB2	
CmosmealFB2	
Mea2100LiteHeadstage	
LIH30Interfaceboard	
LIH30ADCCtrl	
UssingRail	
UssingChamber	
IFB2GoldenInterfaceboard	
IFB30GoldenInterfaceboard	
DeviceHasNoHeadstage	

10.2.1.36 HeadstageldEnumNet enum HeadstageIdEnumNet [strong]

Enumerator

DeviceNotConnected	
Mea2100	
Multiwell	
TbsiDacq	
CmosMea	
InvivoSignalCollectorUnit	
InvitroSignalCollectorUnit	
Mea2100_256	
W2100WirelessReceiver	
W2100WirelessReceiverAnalog	
Mea2100_Lite	
LIH30ADCCtrl	
DeviceHasNoHeadstage	

10.2.1.37 loVoltageEnumNet enum IoVoltageEnumNet [strong]

enumerates the I/O Voltages available on the IFB2

Voltage_3V3	
Voltage_5V0	

10.2.1.38 LIH30_ADC_Channel_EnumNet enum LIH30_ADC_Channel_EnumNet [strong]

Enumerator

User_ADC_0	
User_ADC_1	
User_ADC_2	
User_ADC_3	
User_ADC_4	
Test_ADC_EPC10	
ModulA_ADC0	
ModulA_ADC1	
ModulA_ADC2	
ModulA_ADC3	
ModulB_ADC0	
ModulB_ADC1	
ModulB_ADC2	
ModulB_ADC3	
ModulC_ADC0	
ModulC_ADC1	
ModulC_ADC2	
ModulC_ADC3	
ModuID_ADC0	
ModuID_ADC1	
ModuID_ADC2	
ModuID_ADC3	

10.2.1.39 LIH30_DAC_Channel_EnumNet enum LIH30_DAC_Channel_EnumNet [strong]

User_DAC_0	
User_DAC_1	
User_DAC_2	
Test_DAC_EPC10	
ModulA_DAC0	
ModulA_DAC1	
ModulB_DAC0	
ModulB_DAC1	
ModulC_DAC0	
ModulC_DAC1	
ModuID_DAC0	
ModulD_DAC1	

10.2.1.40 LIH30_EPC10_Bus_EnumNet enum LIH30_EPC10_Bus_EnumNet [strong]

Enumerator

Α	
В	

10.2.1.41 MbcChannelStateEnumNet enum MbcChannelStateEnumNet [strong]

Enumerator

csldleNoBattery	
csldleChargeFinished	
csCapacityTestPrecharge	
csCapacityTestDischarge	
csRefreshBattery	
csCharge	
csDischarge	
csError	

10.2.1.42 MbcChargingModeEnumNet enum MbcChargingModeEnumNet [strong]

Enumerator

StorageCharge	
FullCharge	

10.2.1.43 MbcRatedCapacityEnumNet enum MbcRatedCapacityEnumNet [strong]

Enumerator

rc30mAh	
rc100mAh	
rc200mAh	
rc300mAh	
rcGreater300mAh	

10.2.1.44 McsBusTypeEnumNet enum McsBusTypeEnumNet [strong]

Enumerates the bus to use, either USB, PCI or any

MCS_ANY_BUS	
MCS_UNDEFINED_BUS	
MCS_USB_BUS	
MCS_PCI_BUS	

10.2.1.45 McsUsbSpeedEnumNet enum McsUsbSpeedEnumNet [strong]

Enumerates the current connection speed of the device

Enumerator

LowSpeed	
FullSpeed	
HighSpeed	
SuperSpeed	
UnknownSpeed	

10.2.1.46 MEA2100_256DacqGroupChannelEnumNet enum MEA2100_256DacqGroupChannelEnumNet [strong]

Enumerates the MEA2100-256 Channel Groups of Datastream

Enumerator

HS1ElectrodeGroup	
HS2ElectrodeGroup	
InterfaceADCGroup	
STG1DACSignalGroup	
STG2DACSignalGroup	
DSPAnalogGroup	
DSPDigitalGroup	
IFDigChannelsGroup	
STG1TriggerStatusGroup	
STG1SidebandsGroup	
STG2TriggerStatusGroup	
STG2SidebandsGroup	
AudioTestChannelGroup	
PacketFrameContextGroup	

10.2.1.47 MEA2100_256DigitalSourceEnumNet enum MEA2100_256DigitalSourceEnumNet [strong]

Enumerates the digital source of the MEA2100-256 device.

DigitalInOfOutPort DigitalIn DigitalPulse Feedback AuxIn Zero One DeviceRunStatus PulseGenerator DigitalOutStimulator DigitalOata HS1Trigger1Status HS1Trigger4Status HS1Trigger5Status HS1Trigger6Status HS1Trigger8Status HS1Trigger9Status HS1Trigger9Status HS1Trigger9Status HS1Trigger9Status
DigitalPulse Feedback AuxIn Zero One DeviceRunStatus PulseGenerator DigitalOutStimulator DigitalData HS1Trigger1Status HS1Trigger4Status HS1Trigger5Status HS1Trigger6Status HS1Trigger7Status HS1Trigger8Status HS1Trigger9Status HS1Trigger9Status
Feedback AuxIn Zero One DeviceRunStatus PulseGenerator DigitalOutStimulator DigitalData HS1Trigger1Status HS1Trigger3Status HS1Trigger4Status HS1Trigger6Status HS1Trigger7Status HS1Trigger8Status HS1Trigger9Status
AuxIn Zero One DeviceRunStatus PulseGenerator DigitalOutStimulator DigitalData HS1Trigger1Status HS1Trigger2Status HS1Trigger4Status HS1Trigger5Status HS1Trigger6Status HS1Trigger7Status HS1Trigger8Status HS1Trigger9Status
Zero One DeviceRunStatus PulseGenerator DigitalOutStimulator DigitalData HS1Trigger1Status HS1Trigger2Status HS1Trigger4Status HS1Trigger5Status HS1Trigger6Status HS1Trigger7Status HS1Trigger8Status HS1Trigger9Status
One DeviceRunStatus PulseGenerator DigitalOutStimulator DigitalData HS1Trigger1Status HS1Trigger2Status HS1Trigger4Status HS1Trigger5Status HS1Trigger6Status HS1Trigger7Status HS1Trigger8Status HS1Trigger9Status
DeviceRunStatus PulseGenerator DigitalOutStimulator DigitalData HS1Trigger1Status HS1Trigger2Status HS1Trigger3Status HS1Trigger4Status HS1Trigger5Status HS1Trigger6Status HS1Trigger7Status HS1Trigger8Status HS1Trigger9Status
PulseGenerator DigitalOutStimulator DigitalData HS1Trigger1Status HS1Trigger2Status HS1Trigger3Status HS1Trigger4Status HS1Trigger5Status HS1Trigger6Status HS1Trigger7Status HS1Trigger8Status HS1Trigger9Status
DigitalOutStimulator DigitalData HS1Trigger1Status HS1Trigger2Status HS1Trigger3Status HS1Trigger4Status HS1Trigger5Status HS1Trigger6Status HS1Trigger7Status HS1Trigger8Status HS1Trigger9Status
DigitalData HS1Trigger1Status HS1Trigger2Status HS1Trigger3Status HS1Trigger4Status HS1Trigger5Status HS1Trigger6Status HS1Trigger7Status HS1Trigger8Status HS1Trigger9Status HS1Trigger9Status
HS1Trigger1Status HS1Trigger2Status HS1Trigger3Status HS1Trigger4Status HS1Trigger5Status HS1Trigger6Status HS1Trigger7Status HS1Trigger8Status HS1Trigger9Status HS1Trigger9Status
HS1Trigger2Status HS1Trigger3Status HS1Trigger4Status HS1Trigger5Status HS1Trigger6Status HS1Trigger7Status HS1Trigger8Status HS1Trigger9Status HS1Trigger9Status
HS1Trigger3Status HS1Trigger4Status HS1Trigger5Status HS1Trigger6Status HS1Trigger7Status HS1Trigger8Status HS1Trigger9Status HS1Trigger10Status
HS1Trigger4Status HS1Trigger5Status HS1Trigger6Status HS1Trigger7Status HS1Trigger8Status HS1Trigger9Status HS1Trigger10Status
HS1Trigger4Status HS1Trigger5Status HS1Trigger6Status HS1Trigger7Status HS1Trigger8Status HS1Trigger9Status HS1Trigger10Status
HS1Trigger5Status HS1Trigger6Status HS1Trigger7Status HS1Trigger8Status HS1Trigger9Status HS1Trigger10Status
HS1Trigger6Status HS1Trigger7Status HS1Trigger8Status HS1Trigger9Status HS1Trigger10Status
HS1Trigger7Status HS1Trigger8Status HS1Trigger9Status HS1Trigger10Status
HS1Trigger8Status HS1Trigger9Status HS1Trigger10Status
HS1Trigger9Status HS1Trigger10Status
HS1Trigger10Status
HST Irigger i 1Status
1104T: 400: 1
HS1Trigger12Status
HS1Trigger13Status
HS1Trigger14Status
HS1Trigger15Status
HS1Trigger16Status
HS1Trigger17Status
HS1Trigger18Status
HS1Sideband1
HS1Sideband2
HS1Sideband3
HS1Sideband4
HS1Sideband5
HS1Sideband6
HS1Sideband7
HS1Sideband8
HS1Sideband9
HS1Sideband10
HS1Sideband11
HS1Sideband12
HS1Sideband13
HS1Sideband14
HS1Sideband15
HS1Sideband16
HS1Sideband17
HS1Sideband18

HS2Trigger1Status	
HS2Trigger2Status	
HS2Trigger3Status	
HS2Trigger4Status	
HS2Trigger5Status	
HS2Trigger6Status	
HS2Trigger7Status	
HS2Trigger8Status	
HS2Trigger9Status	
HS2Trigger10Status	
HS2Trigger11Status	
HS2Trigger12Status	
HS2Trigger13Status	
HS2Trigger14Status	
HS2Trigger15Status	
HS2Trigger16Status	
HS2Trigger17Status	
HS2Trigger18Status	
HS2Sideband1	
HS2Sideband2	
HS2Sideband3	
HS2Sideband4	
HS2Sideband5	
HS2Sideband6	
HS2Sideband7	
HS2Sideband8	
HS2Sideband9	
HS2Sideband10	
HS2Sideband11	
HS2Sideband12	
HS2Sideband13	
HS2Sideband14	
HS2Sideband15	
HS2Sideband16	
HS2Sideband17	
HS2Sideband18	
LastPosition	

10.2.1.48 MeaLayoutEnumNet enum MeaLayoutEnumNet [strong]

Enumerates the MEA layout of the MEA2100 device.

mlUnknown	
mIMEA60	

10.2.1.49 MultiwellPlateTypeEnumNet enum MultiwellPlateTypeEnumNet [strong]

Enumerator

Plate_Dummy	
Plate_24W700_100FMA	
Plate_24W030MGA	
Plate_72W500_100PMA	
Plate_72W500_100FMA	
Plate_24W700_100FMB	
Plate_96W700_100FMA	
Plate_96W300_80_1152FMA	
Plate_96W400_80_1152FMB	
Plate_24W300_30_1152GBA	
Plate_24W700_100FMC	
Plate_96W700_100FMB	
Plate_96W700_100GBC	
Plate_96W700_100GBD	
Plate_24W700_100PBA	
Plate_Dummy_126	
Plate_24W300_30GMA	
Plate_96W700_100GMA	
Plate_24W300_30GBA	
Plate_96W700_100GBA	
Plate_24W300_30GBB	
Plate_96W700_100GBB	
No_Plate	

10.2.1.50 PatchServAdcModeEnumNet enum PatchServAdcModeEnumNet [strong]

Enumerator

Normal	
CatchAmp	

10.2.1.51 PlateClampEnumNet enum PlateClampEnumNet [strong]

Close	
Open	
Stop	

10.2.1.52 PlateClampLockEnumNet enum PlateClampLockEnumNet [strong]

Enumerator

Lock	
Unlock	

10.2.1.53 PortDirectionEnumNet enum PortDirectionEnumNet [strong]

enumerates a port direction

Enumerator

Output	
Input	

10.2.1.54 PP_Pump_Mode_Type_EnumNet enum PP_Pump_Mode_Type_EnumNet [strong]

Enumerator

Manual	
Digital	
Analog	

10.2.1.55 ProductIdEnumNet enum ProductIdEnumNet [strong]

Enumerates the group of MCS devices to connect to.

Any	
None	
ALA_VC3	
Cypress_FX1	
Cypress_FX2	
Cypress_FX3	
MC_Card	
Campden_Ci4600EphysVideoDataIntegrator	
HekaLIH30	

HekaEPC10Single	L
HekaEPC10Double	
HekaEPC10Triple	
HekaEPC10Quadro	
HekaLIH406	
HekaLIH816	
HekalTEV100	
HekaPG610	
HekaPG611	
HekaPG612	
HekaPG618	
HekaPG690	
HekaEPCLite	
STG	
Octopot	
Tersens	
Dotriapot	L
HLA	
STG400x	
STG4002	
STG4004	
STG4008	
STG400x_opto	
STG4002_opto	
STG4004_opto	
STG4008_opto	
STG5	
STG3008 FA	
STG500x	
MultiwellOptoStim	
Generic	H
PGA	
PCX	
TCX	T
FCX	Г
FCB	Г
TC01	
TC02	
Retina_LED	
AMS_Dongle	
Okuvision_Stimulator	
ExternBCTester	
Triggerbox_IMS	
Triggerbox_AMS	T
Triggerbox_AMS3	\vdash
ExternDTester	
FunkDongleS	\vdash
ExternSTester	
DongleS	
Dongles	

Triggerbox_R5	
MEA_Switch	
MEA_Impedance	
ChannelTest	
Sw2to64	
PeristalticPump	
MEA_Switch_2_1	
MEA_Switch_4_2	
PPS4plus1	
PPS5	
PPS2	
PPS5 DIG	
MEA Clean	
MEA Coat	
Multiwell ICC	
MBC08	
PPC	
MEA1060	
MEA Sanofi	
ME256	
ME128	
ME64	
ME32	
ME16	
MEA2100_Mini_Usb_develop	
MEA256	
MEA2100	
MEA2100_32	
MEA2100_Lite	
Multiwell	
MEA2100_256	
ME2100	
MEA2100BetaScreen	
MEA2100_Mini	
TBSI_Dacq	
Multiwell_MEA_Mini	
Whole_Cell_Patch	
eCube	
Graphene_FlagShip_Core_2	
GE2100	
Multiboot	
WPA8	
WPA4	
WPA16	
WPA32	
W2100	
NeuroChip	
UsbTest	
SoftwareDongle	
PathIdent	
	_

NF_Gen SafelS Encapsulator NeurochipConfig MeasureTable Robooycte2 Robolnject HiClamp PatchServer Dilutor HiClamp4Uart IM16S16KRA IM64KRB IS32KRA IM64KRC IM16S8KRA IM16KRC SmartImplant PositionImp PositionImp PositionIIBase GrapheneProjectTestDevice Pos900 Neptun Warner_Valve_Control Warner_Valve_Control Warner_Valvaive		
Encapsulator NeurochipConfig MeasureTable Robooycte2 Robolnject HiClamp PatchServer Dilutor HiClamp4Uart IM16S16KRA IM64KRB IS32KRA IM64KRC IM16S8KRA IM16KRC SmartImplant PositionImp PositionImp PositionIICentralUnit PositionIIBase GrapheneProjectTestDevice Pos900 Neptun Warner_Valve_Control Warner_TEER_Machine	NF_Gen	
NeurochipConfig MeasureTable Robooycte2 Robolnject HiClamp PatchServer Dilutor HiClamp4Uart IM16S16KRA IM64KRB IS32KRA IM64KRC IM16S8KRA IM16KRC SmartImplant PositionImp PositionBase PositionIICentralUnit PositionIIBase GrapheneProjectTestDevice Pos900 Neptun Warner_Valve_Control Warner_TEER_Machine	SafelS	
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Robolnject HiClamp PatchServer Dilutor HiClamp4Uart IM16S16KRA IM64KRB IS32KRA IM64KRC IM16S8KRA IM16S8KRA IM16KRC SmartImplant PositionImp PositionBase PositionIICentralUnit PositionIIBase GrapheneProjectTestDevice Pos900 Neptun Warner_Valve_Control Warner_TEER_Machine	MeasureTable	
HiClamp PatchServer Dilutor HiClamp4Uart IM16S16KRA IM64KRB IS32KRA IM64KRC IM16S8KRA IM16KRC SmartImplant PositionImp PositionBase PositionIICentralUnit PositionIIBase GrapheneProjectTestDevice Pos900 Neptun Warner_Valve_Control Warner_TEER_Machine	Robooycte2	
PatchServer Dilutor HiClamp4Uart IM16S16KRA IM64KRB IS32KRA IM64KRC IM16S8KRA IM16KRC SmartImplant PositionImp PositionBase PositionIICentralUnit PositionIIBase GrapheneProjectTestDevice Pos900 Neptun Warner_Valve_Control Warner_TEER_Machine	Robolnject	
Dilutor HiClamp4Uart IM16S16KRA IM64KRB IS32KRA IM64KRC IM16S8KRA IM16KRC SmartImplant PositionImp PositionBase PositionIICentralUnit PositionIIBase GrapheneProjectTestDevice Pos900 Neptun Warner_Valve_Control Warner_TEER_Machine	HiClamp	
HiClamp4Uart IM16S16KRA IM64KRB IS32KRA IM64KRC IM16S8KRA IM16KRC SmartImplant PositionImp PositionBase PositionIICentralUnit PositionIIBase GrapheneProjectTestDevice Pos900 Neptun Warner_Valve_Control Warner_TEER_Machine	PatchServer	
IM16S16KRA IM64KRB IS32KRA IM64KRC IM16S8KRA IM16KRC SmartImplant PositionImp PositionBase PositionIICentralUnit PositionIIBase GrapheneProjectTestDevice Pos900 Neptun Warner_Valve_Control Warner_TEER_Machine	Dilutor	
IM64KRB IS32KRA IM64KRC IM16S8KRA IM16KRC SmartImplant PositionImp PositionBase PositionIICentralUnit PositionIIBase GrapheneProjectTestDevice Pos900 Neptun Warner_Valve_Control Warner_TEER_Machine	HiClamp4Uart	
IS32KRA IM64KRC IM16S8KRA IM16KRC SmartImplant PositionImp PositionBase PositionIICentralUnit PositionIIBase GrapheneProjectTestDevice Pos900 Neptun Warner_Valve_Control Warner_TEER_Machine	IM16S16KRA	
IM64KRC IM16S8KRA IM16KRC SmartImplant PositionImp PositionBase PositionIICentralUnit PositionIIBase GrapheneProjectTestDevice Pos900 Neptun Warner_Valve_Control Warner_TEER_Machine	IM64KRB	
IM16S8KRA IM16KRC SmartImplant PositionImp PositionBase PositionIICentralUnit PositionIIBase GrapheneProjectTestDevice Pos900 Neptun Warner_Valve_Control Warner_TEER_Machine	IS32KRA	
IM16KRC SmartImplant PositionImp PositionBase PositionIICentralUnit PositionIIBase GrapheneProjectTestDevice Pos900 Neptun Warner_Valve_Control Warner_TEER_Machine	IM64KRC	
SmartImplant PositionImp PositionBase PositionIICentralUnit PositionIIBase GrapheneProjectTestDevice Pos900 Neptun Warner_Valve_Control Warner_TEER_Machine	IM16S8KRA	
PositionImp PositionBase PositionIICentralUnit PositionIIBase GrapheneProjectTestDevice Pos900 Neptun Warner_Valve_Control Warner_TEER_Machine	IM16KRC	
PositionBase PositionIICentralUnit PositionIIBase GrapheneProjectTestDevice Pos900 Neptun Warner_Valve_Control Warner_TEER_Machine	SmartImplant	
PositionIICentralUnit PositionIIBase GrapheneProjectTestDevice Pos900 Neptun Warner_Valve_Control Warner_TEER_Machine	PositionImp	
PositionIIBase GrapheneProjectTestDevice Pos900 Neptun Warner_Valve_Control Warner_TEER_Machine	PositionBase	
GrapheneProjectTestDevice Pos900 Neptun Warner_Valve_Control Warner_TEER_Machine	PositionIICentralUnit	
Pos900 Neptun Warner_Valve_Control Warner_TEER_Machine	PositionIIBase	
Neptun Warner_Valve_Control Warner_TEER_Machine		
Warner_Valve_Control Warner_TEER_Machine		
Warner_TEER_Machine	Neptun	
	Warner_Valve_Control	
Marner Hesina	Warner_TEER_Machine	
warner_ossing	Warner_Ussing	

10.2.1.56 PulseGenerator_Mode_EnumNet enum PulseGenerator_Mode_EnumNet [strong]

Enumerator

Off	
AlwaysOn	
Gated_Low_Active	
Gated_High_Active	

10.2.1.57 ReferenceElectrodeModeEnumNet enum ReferenceElectrodeModeEnumNet [strong]

enumerates the electrode subtraction modes

SubtractionOff	
SubtractFromAllOther	
SubtractFromReferenceElectrodeOnly	
SubtractFromAll	

10.2.1.58 ReferenceElectrodeSwitchPositionEnumNet enum ReferenceElectrodeSwitchPositionEnumNet [strong]

enumerates the possible positions of the reference electrode switch of the ME2100 device

Enumerator

off	
Ref8	
Ref16	
Ref24	
Ref32	

10.2.1.59 RetriggerActionEnumNet enum RetriggerActionEnumNet [strong]

Enumerates possible retrigger actions for STG200x devices.

Enumerator

raStop	
raRestart	
ralgnore	
raGate	
raSingle	

10.2.1.60 RoboCurrentModeEnumNet enum RoboCurrentModeEnumNet [strong]

Off	
Break	
Standby	
Reference	
Movement	

10.2.1.61 SampleDstSizeNet enum SampleDstSizeNet [strong]

Enumerates the destination data format for ChannelBlock functions.

Enumerator

SampleDstSize16	
SampleDstSize32	

10.2.1.62 SampleSizeNet enum SampleSizeNet [strong]

Enumerates the data format for ChannelBlock functions.

Enumerator

SampleSize16Unsigned	
SampleSize16Signed	
SampleSize24Unsigned	
SampleSize24Signed	
SampleSize32Unsigned	
SampleSize32Signed	
SampleSize64Unsigned	
SampleSize64Signed	

10.2.1.63 SCU_HeadstageldEnumNet enum SCU_HeadstageIdEnumNet [strong]

DeviceNotConnected	
Me2100_32Xilinx	
Me2100_32PICiCE40	
Mea2100Mini60PICiCE40	
Mea2100BetaScreen	
Me2100UPA32	
MultiwellMini	
Mea2100Mini120	
Mea2100Mini60ECP5	
eCube	
Me2100Graphene16_32	
GrapheneFlagshipCore2	
WholeCellPatch	
DeviceHasNoHeadstage	

$\textbf{10.2.1.64} \quad \textbf{SCUDacqGroupChannelEnumNet} \quad \texttt{enum SCUDacqGroupChannelEnumNet} \quad \texttt{[strong]}$

Enumerates the SCU Channel Groups of Datastream

Enumerator

SCU1ElectrodeGroupHS1	
SCU1ElectrodeGroupHS2	
SCU1ElectrodeGroupHS3	
SCU1ElectrodeGroupHS4	
SCU2ElectrodeGroupHS1	
SCU2ElectrodeGroupHS2	
SCU2ElectrodeGroupHS3	
SCU2ElectrodeGroupHS4	
InterfaceADCGroup	
STG1DACSignalGroup	
STG2DACSignalGroup	
DSPAnalogGroup	
DSPDigitalGroup	
IFDigChannelsGroup	
STG1TriggerStatusGroup	
STG1SidebandsGroup	
STG2TriggerStatusGroup	
STG2SidebandsGroup	
AudioTestChannelGroup	
PacketFrameContextGroup	
·	

10.2.1.65 SCUDigitalSourceEnumNet enum SCUDigitalSourceEnumNet [strong]

Enumerates the digital source of the SCU device.

DigitalInOfOutPort	
DigitalIn	
DigitalPulse	
Feedback	
AuxIn	
Zero	
One	
PulseGenerator	
DigitalOutStimulator	
DigitalData	
DeviceRunStatus	
HS1Trigger1Status	

HS1Trigger2Status
HS1Trigger3Status
HS1Trigger4Status
HS1Trigger5Status
HS1Trigger6Status
HS1Trigger7Status
HS1Trigger8Status
HS1Trigger9Status
HS1Trigger10Status
HS1Trigger11Status
HS1Trigger12Status
HS1Sideband1
HS1Sideband2
HS1Sideband3
HS1Sideband4
HS1Sideband5
HS1Sideband6
HS1Sideband7
HS1Sideband8
HS1Sideband9
HS1Sideband10
HS1Sideband11
HS1Sideband12
HS2Trigger1Status
HS2Trigger2Status
HS2Trigger3Status
HS2Trigger4Status
HS2Trigger5Status
HS2Trigger6Status
HS2Trigger7Status
HS2Trigger8Status
HS2Trigger9Status
HS2Trigger10Status
HS2Trigger11Status
HS2Trigger12Status
HS2Sideband1
HS2Sideband2
HS2Sideband3
HS2Sideband4
HS2Sideband5
HS2Sideband6
HS2Sideband7
HS2Sideband8
HS2Sideband9
HS2Sideband10
HS2Sideband11
HS2Sideband12
LastPosition

$\textbf{10.2.1.66} \quad \textbf{Stg200xDigoutModeEnumNet} \quad \texttt{enum Stg200xDigoutModeEnumNet} \quad \texttt{[strong]}$

Enumerates the DigoutMode on STG400x devices.

Enumerator

Monitor	Monitor digital input pins. Digital out is a mirror of the digital input pins.
Manual	Manually set the value on the digital out pins with SetDigoutValue.
SYNCOUT1	show bit 7 to 15 of syncout channel 1 on the digital outputs
SYNCOUT2	show bit 7 to 15 of syncout channel 2 on the digital outputs
SYNCOUT3	show bit 7 to 15 of syncout channel 3 on the digital outputs
SYNCOUT4	show bit 7 to 15 of syncout channel 4 on the digital outputs
SYNCOUT5	show bit 7 to 15 of syncout channel 5 on the digital outputs
SYNCOUT6	show bit 7 to 15 of syncout channel 6 on the digital outputs
SYNCOUT7	show bit 7 to 15 of syncout channel 7 on the digital outputs
SYNCOUT8	show bit 7 to 15 of syncout channel 8 on the digital outputs

10.2.1.67 Stg200xSegmentFlagsEnumNet enum Stg200xSegmentFlagsEnumNet [strong]

Enumerates Segmentflag options for STG400x devices.

Enumerator

None	No Flags.
UpdateTrigger	Assign all channels to the trigger which number is the given segment number.
DownloadOnly	Only switch the segment for the next download, keep current segment running.
TriggerOnly	Only switch the segment for the next sweep, keep current downlaod segment.
SyncStart	Delay the start the new segment with SendSegmentStart() until the next sweep has finished.

$\textbf{10.2.1.68} \quad \textbf{Stg200xTriggerStatusEnumNet} \quad \texttt{enum} \quad \texttt{Stg200xTriggerStatusEnumNet} \quad \texttt{[strong]}$

Enumerates the STG download mode trigger status

The STG maintains the status for each of the STG200x_NUM_TRIGGER triggers

Idle	
Running	
Finished	
Armed	

10.2.1.69 STG_DestinationEnumNet enum STG_DestinationEnumNet [strong]

Enumerates the destination for STG downloads.

Enumerator

channeldata_voltage	
channeldata_current	
syncoutdata	
channeldata_positive_voltage	
channeldata_positive_current	
rawdata	
channeldata_current_own_sync	
channeldata_positive_current_own_sync	
channeldata_current_own_boost_gnd_sync	
channeldata_positive_current_own_boost_gnd_sync	
channeldata_current_always_boost	
channeldata_current_always_boost_own_sync	

10.2.1.70 StimulationLayoutConfigurationEnumNet enum StimulationLayoutConfigurationEnumNet [strong]

enumerates the layout configuration for the MEA2100-256 device

Enumerator

SingleWell	
SixWell	
NineWell	

$\textbf{10.2.1.71} \quad \textbf{TBSI_DACQDigitalSourceEnumNet} \quad \texttt{enum TBSI_DACQDigitalSourceEnumNet} \quad \texttt{[strong]}$

Enumerates the digital source of the TBSI-DACQ device.

DigitalInOfOutPort	
DigitalIn	
DigitalPulse	
Feedback	
AuxIn	
Zero	
One	

DeviceRunStatus	
PulseGenerator	
DigitalOutStimulator	
DigitalData	
HS1DigitalData1	
HS2DigitalData1	
LastPosition	

10.2.1.72 TcxDeviceTypeEnumNet enum TcxDeviceTypeEnumNet [strong]

Enumerates the type of TCX devices.

Enumerator

Unknown	
Regular	
BMI	
Nanion	
Warner	

10.2.1.73 TcxSensorTypeEnumNet enum TcxSensorTypeEnumNet [strong]

Enumerates the sensor types for TCX devices

Enumerator

Reserved5	
Reserved4	
Reserved3	
Reserved2	
Reserved1	
NTC10K	
PT1000	
PT100	

10.2.1.74 TeerClampModeEnumNet enum TeerClampModeEnumNet [strong]

Enumerator

ClampModeVoltage

ClampModeCurrent	
ClampModeOpen	
ClampModeInternalCalibration	

10.2.1.75 TeerWaveformEnumNet enum TeerWaveformEnumNet [strong]

Enumerator

Rectangle	
Sine	

10.2.1.76 TriggerSourceEnumNet enum TriggerSourceEnumNet [strong]

Enumerates the trigger source of the MEA2100 device.

tsNone	
tsDigitalIn1	
tsDigitalIn2	
tsDigitalIn3	
tsDigitalIn4	
tsDigitalIn5	
tsDigitalIn6	
tsDigitalIn7	
tsDigitalIn8	
tsDigitalIn9	
tsDigitalIn10	
tsDigitalIn11	
tsDigitalIn12	
tsDigitalIn13	
tsDigitalIn14	
tsDigitalIn15	
tsDigitalIn16	
tsDigitalIn17	
tsDigitalIn18	
tsDigitalIn19	
tsDigitalIn20	
tsDigitalIn21	
tsDigitalIn22	
tsDigitalIn23	
tsDigitalIn24	
1	

tsDigitalIn25	
tsDigitalIn26	
tsDigitalIn27	
tsDigitalIn28	
tsDigitalIn29	
tsDigitalIn30	
tsDigitalIn31	
tsDigitalIn32	
tsFeedback1	
tsFeedback2	
tsFeedback3	
tsFeedback4	
tsFeedback5	
tsFeedback6	
tsFeedback7	
tsFeedback8	
tsFeedback9	
tsFeedback10	
tsFeedback11	
tsFeedback12	
tsFeedback13	
tsFeedback14	
tsFeedback15	
tsFeedback16	
tsFeedback17	
tsFeedback18	
tsFeedback19	
tsFeedback20	
tsFeedback21	
tsFeedback22	
tsFeedback23	
tsFeedback24	
tsFeedback25	
tsFeedback26	
tsFeedback27	
tsFeedback28	
tsFeedback29	
tsFeedback30	
tsFeedback31	
tsFeedback32	
tsAuxIn1	
tsAuxIn2	
tsDigitalPuse0	
tsDigitalPuse1	
tsDigitalPuse2	
-	
tsDigitalPuse3	
tsDigitalPuse4	
tsDigitalPuse5	
tsDigitalPuse6	
tsDigitalPuse7	

tsDigitalPuse8	
tsDigitalPuse9	
tsDigitalPuse10	
tsDigitalPuse11	
tsDigitalPuse12	
tsDigitalPuse13	
tsDigitalPuse14	
tsDigitalPuse15	
tsDigitalPuse16	
tsDigitalPuse17	
tsDigitalPuse18	
tsDigitalPuse19	
tsDigitalPuse20	
tsDigitalPuse21	
tsDigitalPuse22	
tsDigitalPuse23	
tsDigitalPuse24	
tsDigitalPuse25	
tsDigitalPuse26	
tsDigitalPuse27	
tsDigitalPuse28	
tsDigitalPuse29	
tsDigitalPuse30	
tsDigitalPuse31	
tsTriggered	
tsSidebandBit8	
tsDACQCy1Dev1Runs	
tsDACQCy1Dev2Runs	
tsDACQCy2Dev1Runs	
tsDACQCy2Dev2Runs	

10.2.1.77 UsbVendorldEnumNet enum UsbVendorldEnumNet [strong]

Enumerator

Unknown	
None	
Renesas	
ASMedia	
Intel	

$\textbf{10.2.1.78} \quad \textbf{UssingClampModeEnumNet} \quad \texttt{enum UssingClampModeEnumNet} \quad \texttt{[strong]}$

VoltageClamp	
CurrentClamp	
OpenClamp	
Standby	
ElectrodeOffset	

10.2.1.79 UssingUnitEnumNet enum UssingUnitEnumNet [strong]

Enumerator

Volt	
Ampere	
State	

10.2.1.80 VendorldEnumNet enum VendorldEnumNet [strong]

Enumerates the group of MCS devices to connect to.

Enumerator

Any	
None	
MCS	
PCI	
Cypress	
ALA_VC3	

10.2.1.81 W2100_Accel_Gyro_Select_EnumNet enum W2100_Accel_Gyro_Select_EnumNet [strong]

enumerates the accelerometer configuration on the W2100 device

Off	
GyroOnly	
AccelOnly	
Both	

10.2.1.82 W2100DacqGroupChannelEnumNet enum W2100DacqGroupChannelEnumNet [strong]

Enumerates the W2100 Channel Groups of Datastream

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WirelessHeadStageAccDataRE1HS3 WirelessHeadStageGyroDataRE1HS4 WirelessHeadStageGyroDataRE2HS1 WirelessHeadStageGyroDataRE2HS1 WirelessHeadStageAccDataRE2HS1 WirelessHeadStageGyroDataRE2HS2 WirelessHeadStageAccDataRE2HS2 WirelessHeadStageGyroDataRE2HS3 WirelessHeadStageGyroDataRE2HS3 WirelessHeadStageGyroDataRE2HS3 WirelessHeadStageGyroDataRE2HS4 WirelessHeadStageGyroDataRE2HS4 WirelessHeadStageAccDataRE2HS4 WirelessHeadStageOptoStimCurrentRE1HS1 WirelessHeadStageOptoStimCurrentRE1HS2 WirelessHeadStageOptoStimCurrentRE1HS2 WirelessHeadStageOptoStimCurrentRE1HS3 WirelessHeadStageOptoStimCurrentRE1HS3 WirelessHeadStageOptoStimCurrentRE1HS3 WirelessHeadStageOptoStimCurrentRE1HS4 WirelessHeadStageOptoStimCurrentRE1HS4	WirelessHeadStageAccDataRE1HS2
WirelessHeadStageGyroDataRE1HS4 WirelessHeadStageGyroDataRE2HS1 WirelessHeadStageGyroDataRE2HS1 WirelessHeadStageGyroDataRE2HS1 WirelessHeadStageGyroDataRE2HS2 WirelessHeadStageGyroDataRE2HS2 WirelessHeadStageGyroDataRE2HS3 WirelessHeadStageGyroDataRE2HS3 WirelessHeadStageGyroDataRE2HS3 WirelessHeadStageGyroDataRE2HS4 WirelessHeadStageGyroDataRE2HS4 WirelessHeadStageGyroDataRE2HS4 WirelessHeadStageGyroDataRE2HS4 WirelessHeadStageOptoStimCurrentRE1HS1 WirelessHeadStageOptoStimCurrentRE1HS2 WirelessHeadStageOptoStimCurrentRE1HS2 WirelessHeadStageOptoStimCurrentRE1HS3 WirelessHeadStageOptoStimCurrentRE1HS3 WirelessHeadStageOptoStimCurrentRE1HS3 WirelessHeadStageOptoStimCurrentRE1HS4 WirelessHeadStageOptoStimCurrentRE1HS4	WirelessHeadStageGyroDataRE1HS3
WirelessHeadStageAccDataRE1HS4 WirelessHeadStageGyroDataRE2HS1 WirelessHeadStageAccDataRE2HS1 WirelessHeadStageGyroDataRE2HS2 WirelessHeadStageAccDataRE2HS2 WirelessHeadStageGyroDataRE2HS3 WirelessHeadStageGyroDataRE2HS3 WirelessHeadStageGyroDataRE2HS4 WirelessHeadStageGyroDataRE2HS4 WirelessHeadStageAccDataRE2HS4 WirelessHeadStageOptoStimCurrentRE1HS1 WirelessHeadStageOptoStimCurrentRE1HS1 WirelessHeadStageOptoStimCurrentRE1HS2 WirelessHeadStageOptoStimCurrentRE1HS3 WirelessHeadStageOptoStimCurrentRE1HS3 WirelessHeadStageOptoStimCurrentRE1HS3 WirelessHeadStageOptoStimCurrentRE1HS4 WirelessHeadStageOptoStimCurrentRE1HS4	WirelessHeadStageAccDataRE1HS3
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WirelessHeadStageAccDataRE2HS1 WirelessHeadStageGyroDataRE2HS2 WirelessHeadStageAccDataRE2HS2 WirelessHeadStageGyroDataRE2HS3 WirelessHeadStageAccDataRE2HS3 WirelessHeadStageGyroDataRE2HS4 WirelessHeadStageGyroDataRE2HS4 WirelessHeadStageAccDataRE2HS4 WirelessHeadStageOptoStimCurrentRE1HS1 WirelessHeadStageOptoStimCurrentRE1HS1 WirelessHeadStageOptoStimCurrentRE1HS2 WirelessHeadStagePeservedARE1HS2 WirelessHeadStageOptoStimCurrentRE1HS3 WirelessHeadStageOptoStimCurrentRE1HS3 WirelessHeadStageOptoStimCurrentRE1HS4 WirelessHeadStageOptoStimCurrentRE1HS4	WirelessHeadStageAccDataRE1HS4
WirelessHeadStageGyroDataRE2HS2 WirelessHeadStageGyroDataRE2HS3 WirelessHeadStageGyroDataRE2HS3 WirelessHeadStageGyroDataRE2HS3 WirelessHeadStageGyroDataRE2HS4 WirelessHeadStageGyroDataRE2HS4 WirelessHeadStageOptoStimCurrentRE1HS1 WirelessHeadStageOptoStimCurrentRE1HS1 WirelessHeadStageOptoStimCurrentRE1HS2 WirelessHeadStagePeservedARE1HS2 WirelessHeadStageOptoStimCurrentRE1HS3 WirelessHeadStageOptoStimCurrentRE1HS3 WirelessHeadStageOptoStimCurrentRE1HS3 WirelessHeadStageOptoStimCurrentRE1HS4 WirelessHeadStageOptoStimCurrentRE1HS4	WirelessHeadStageGyroDataRE2HS1
WirelessHeadStageAccDataRE2HS2 WirelessHeadStageGyroDataRE2HS3 WirelessHeadStageAccDataRE2HS3 WirelessHeadStageGyroDataRE2HS4 WirelessHeadStageAccDataRE2HS4 WirelessHeadStageOptoStimCurrentRE1HS1 WirelessHeadStageOptoStimCurrentRE1HS1 WirelessHeadStageOptoStimCurrentRE1HS2 WirelessHeadStageOptoStimCurrentRE1HS2 WirelessHeadStageOptoStimCurrentRE1HS3 WirelessHeadStageOptoStimCurrentRE1HS3 WirelessHeadStageOptoStimCurrentRE1HS3 WirelessHeadStageOptoStimCurrentRE1HS4 WirelessHeadStageOptoStimCurrentRE1HS4	WirelessHeadStageAccDataRE2HS1
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WirelessHeadStageAccDataRE2HS3 WirelessHeadStageGyroDataRE2HS4 WirelessHeadStageAccDataRE2HS4 WirelessHeadStageOptoStimCurrentRE1HS1 WirelessHeadStageOptoStimCurrentRE1HS1 WirelessHeadStageOptoStimCurrentRE1HS2 WirelessHeadStageOptoStimCurrentRE1HS2 WirelessHeadStageOptoStimCurrentRE1HS3 WirelessHeadStageOptoStimCurrentRE1HS3 WirelessHeadStageOptoStimCurrentRE1HS3 WirelessHeadStageOptoStimCurrentRE1HS4 WirelessHeadStageOptoStimCurrentRE1HS4	WirelessHeadStageAccDataRE2HS2
WirelessHeadStageGyroDataRE2HS4 WirelessHeadStageAccDataRE2HS4 WirelessHeadStageOptoStimCurrentRE1HS1 WirelessHeadStageOptoStimCurrentRE1HS1 WirelessHeadStageOptoStimCurrentRE1HS2 WirelessHeadStageOptoStimCurrentRE1HS2 WirelessHeadStageOptoStimCurrentRE1HS3 WirelessHeadStageReservedARE1HS3 WirelessHeadStageOptoStimCurrentRE1HS3 WirelessHeadStageOptoStimCurrentRE1HS4 WirelessHeadStageOptoStimCurrentRE1HS4	WirelessHeadStageGyroDataRE2HS3
WirelessHeadStageAccDataRE2HS4 WirelessHeadStageOptoStimCurrentRE1HS1 WirelessHeadStageReservedARE1HS1 WirelessHeadStageOptoStimCurrentRE1HS2 WirelessHeadStageReservedARE1HS2 WirelessHeadStageOptoStimCurrentRE1HS3 WirelessHeadStageReservedARE1HS3 WirelessHeadStageOptoStimCurrentRE1HS3 WirelessHeadStageOptoStimCurrentRE1HS4 WirelessHeadStageReservedARE1HS4	WirelessHeadStageAccDataRE2HS3
WirelessHeadStageOptoStimCurrentRE1HS1 WirelessHeadStageReservedARE1HS1 WirelessHeadStageOptoStimCurrentRE1HS2 WirelessHeadStageReservedARE1HS2 WirelessHeadStageOptoStimCurrentRE1HS3 WirelessHeadStageReservedARE1HS3 WirelessHeadStageOptoStimCurrentRE1HS4 WirelessHeadStageOptoStimCurrentRE1HS4	WirelessHeadStageGyroDataRE2HS4
WirelessHeadStageReservedARE1HS1 WirelessHeadStageOptoStimCurrentRE1HS2 WirelessHeadStageReservedARE1HS2 WirelessHeadStageOptoStimCurrentRE1HS3 WirelessHeadStageReservedARE1HS3 WirelessHeadStageOptoStimCurrentRE1HS4 WirelessHeadStageReservedARE1HS4	WirelessHeadStageAccDataRE2HS4
WirelessHeadStageOptoStimCurrentRE1HS2 WirelessHeadStageReservedARE1HS2 WirelessHeadStageOptoStimCurrentRE1HS3 WirelessHeadStageReservedARE1HS3 WirelessHeadStageOptoStimCurrentRE1HS4 WirelessHeadStageReservedARE1HS4	WirelessHeadStageOptoStimCurrentRE1HS1
WirelessHeadStageReservedARE1HS2 WirelessHeadStageOptoStimCurrentRE1HS3 WirelessHeadStageReservedARE1HS3 WirelessHeadStageOptoStimCurrentRE1HS4 WirelessHeadStageReservedARE1HS4	WirelessHeadStageReservedARE1HS1
WirelessHeadStageOptoStimCurrentRE1HS3 WirelessHeadStageReservedARE1HS3 WirelessHeadStageOptoStimCurrentRE1HS4 WirelessHeadStageReservedARE1HS4	WirelessHeadStageOptoStimCurrentRE1HS2
WirelessHeadStageOptoStimCurrentRE1HS3 WirelessHeadStageReservedARE1HS3 WirelessHeadStageOptoStimCurrentRE1HS4 WirelessHeadStageReservedARE1HS4	WirelessHeadStageReservedARE1HS2
WirelessHeadStageReservedARE1HS3 WirelessHeadStageOptoStimCurrentRE1HS4 WirelessHeadStageReservedARE1HS4	WirelessHeadStageOptoStimCurrentRE1HS3
WirelessHeadStageReservedARE1HS4	
	WirelessHeadStageOptoStimCurrentRE1HS4
WirelessHeadStageOntoStimCurrentRE2HS1	WirelessHeadStageReservedARE1HS4
*****Oloooi loadotagooptootiiiloaireitti tE21101	WirelessHeadStageOptoStimCurrentRE2HS1

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WirelessHeadStageReservedARE2HS1	
WirelessHeadStageOptoStimCurrentRE2HS2	
WirelessHeadStageReservedARE2HS2	
WirelessHeadStageOptoStimCurrentRE2HS3	
WirelessHeadStageReservedARE2HS3	
WirelessHeadStageOptoStimCurrentRE2HS4	
WirelessHeadStageReservedARE2HS4	
WirelessHeadStageReservedBRE1HS1	
WirelessHeadStageReservedCRE1HS1	
WirelessHeadStageReservedBRE1HS2	
WirelessHeadStageReservedCRE1HS2	
WirelessHeadStageReservedBRE1HS3	
WirelessHeadStageReservedCRE1HS3	
WirelessHeadStageReservedBRE1HS4	
WirelessHeadStageReservedCRE1HS4	
WirelessHeadStageReservedBRE2HS1	
WirelessHeadStageReservedCRE2HS1	
WirelessHeadStageReservedBRE2HS2	
WirelessHeadStageReservedCRE2HS2	
WirelessHeadStageReservedBRE2HS3	
WirelessHeadStageReservedCRE2HS3	
WirelessHeadStageReservedBRE2HS4	
WirelessHeadStageReservedCRE2HS4	
IFDigChannelsGroup	
AudioTestChannelGroup	
PacketFrameContextGroup	

10.2.1.83 W2100DigitalSourceEnumNet enum W2100DigitalSourceEnumNet [strong]

Enumerates the digital source of the W2100 device.

DigitalInOfOutPort	
DigitalIn	
DigitalPulse	
Feedback	
AuxIn	
Zero	
One	
PulseGenerator	
DigDataFromReceiver	
DigitalOutStimulator	
DigitalData	
DeviceRunStatus	
DigStreamFromReceiver	
Generated by DoxydeastPosition	

10.2.1.84 WvcDisplayModeEnumNet enum WvcDisplayModeEnumNet [strong]

enumerates Wvc display mode

Enumerator

Work	
PC	
Settings	
TouchTest	

10.2.1.85 WvcValveModeEnumNet enum WvcValveModeEnumNet [strong]

enumerates Wvc valve mode

Enumerator

Manual	
Digital	
Analog	
Table	

10.2.2 Function Documentation

```
10.2.2.2 OnDeviceArrivalRemoval() public delegate void Mcs::Usb::OnDeviceArrivalRemoval (
CMcsUsbListEntryNet^ entry)
```

Delegate to show a device arrival or removal.

```
10.2.2.4 OnMcsUsbDeviceState() public delegate void OnMcsUsbDeviceState (
             usbSetupPacket_t^ request )
10.2.2.5 OnMcsUsbDeviceStateCallback() private delegate void OnMcsUsbDeviceStateCallback (
             IntPtr pThis,
             uint32_t size,
             IntPtr buffer )
10.2.2.6 OnMwPollStatus() public delegate void Mcs::Usb::OnMwPollStatus (
             unsigned int CurrentTemp,
             unsigned int PlateState,
             unsigned int SwitchState )
10.2.2.7 OnStg200xDataHandler() public delegate void Mcs::Usb::OnStg200xDataHandler (
             uint32_t trigger )
10.2.2.8 OnStg200xErrorHandler() public delegate void Mcs::Usb::OnStg200xErrorHandler ( )
10.2.2.9 OnStgPollStatus() public delegate void Mcs::Usb::OnStgPollStatus (
             unsigned int status,
             StgStatusNet^ stgStatusNet,
             array < int >^{\land} index_list)
10.2.2.10 OnUpdateFirmwareProgress() public delegate void Mcs::Usb::OnUpdateFirmwareProgress
(
             int )
10.2.2.11 OnUpdateFirmwareStatusChange() public delegate void Mcs::Usb::OnUpdateFirmware←
StatusChange (
            String^{\wedge} )
10.2.2.12 RoboStatusEventDelegate() public delegate void Mcs::Usb::RoboStatusEventDelegate (
             array< unsigned char >^{\wedge} buffer )
```

11 Class Documentation

11.1 CW2100_FunctionNet::AudioChannelsNet Struct Reference

Public Attributes

- W2100DacqGroupChannelEnumNet dacqgroup
- int channel
- · int amplification

11.1.1 Member Data Documentation

```
11.1.1.1 amplification int amplification
```

```
11.1.1.2 channel int channel
```

```
11.1.1.3 dacqgroup W2100DacqGroupChannelEnumNet dacqgroup
```

11.2 BatteryState Class Reference

Properties

- unsigned int Charge [get]
- unsigned int Voltage [get]
- System::String^ ChargeString [get]
- System::String^ ChargeRegionString [get]
- System::String^ VoltageString [get]

11.2.1 Property Documentation

```
11.2.1.1 Charge unsigned int Charge [get]
```

$\textbf{11.2.1.2} \quad \textbf{ChargeRegionString} \quad \texttt{System::} \quad \texttt{String}^{\wedge} \quad \texttt{ChargeRegionString} \quad \texttt{[get]}$

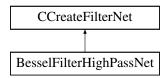
```
11.2.1.3 ChargeString System:: String ChargeString [get]
```

```
11.2.1.4 Voltage unsigned int Voltage [get]
```

11.2.1.5 VoltageString System:: String VoltageString [get]

11.3 BesselFilterHighPassNet Class Reference

Inheritance diagram for BesselFilterHighPassNet:



Public Member Functions

• BesselFilterHighPassNet (int numCoefSets, int order, double sampleRate, double cutoffFrequency, double scale)

Additional Inherited Members

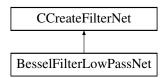
11.3.1 Constructor & Destructor Documentation

11.3.1.1 BesselFilterHighPassNet() BesselFilterHighPassNet (

```
int numCoefSets,
int order,
double sampleRate,
double cutoffFrequency,
double scale )
```

11.4 BesselFilterLowPassNet Class Reference

Inheritance diagram for BesselFilterLowPassNet:



Public Member Functions

 BesselFilterLowPassNet (int numCoefSets, int order, double sampleRate, double cutoffFrequency, double scale)

Additional Inherited Members

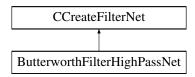
11.4.1 Constructor & Destructor Documentation

11.4.1.1 BesselFilterLowPassNet() BesselFilterLowPassNet (

```
int numCoefSets,
int order,
double sampleRate,
double cutoffFrequency,
double scale )
```

11.5 ButterworthFilterHighPassNet Class Reference

Inheritance diagram for ButterworthFilterHighPassNet:



Public Member Functions

• ButterworthFilterHighPassNet (int numCoefSets, int order, double sampleRate, double cutoffFrequency, double scale)

Additional Inherited Members

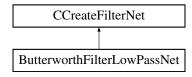
11.5.1 Constructor & Destructor Documentation

11.5.1.1 ButterworthFilterHighPassNet() ButterworthFilterHighPassNet (

```
int numCoefSets,
int order,
double sampleRate,
double cutoffFrequency,
double scale )
```

11.6 ButterworthFilterLowPassNet Class Reference

Inheritance diagram for ButterworthFilterLowPassNet:



Public Member Functions

ButterworthFilterLowPassNet (int numCoefSets, int order, double sampleRate, double cutoffFrequency, double scale)

Additional Inherited Members

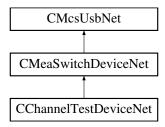
11.6.1 Constructor & Destructor Documentation

11.6.1.1 ButterworthFilterLowPassNet() ButterworthFilterLowPassNet (

```
int numCoefSets,
int order,
double sampleRate,
double cutoffFrequency,
double scale )
```

11.7 CChannelTestDeviceNet Class Reference

Inheritance diagram for CChannelTestDeviceNet:



Public Member Functions

- CChannelTestDeviceNet ()
- ∼CChannelTestDeviceNet ()
- · void SetWaveform (unsigned int Waveform)
- void SetAmplitude (unsigned int Amplitude)
- void SetFrequency (unsigned int Frequency)
- void SetAttenuation (unsigned int Attenuation)

11.7.1 Constructor & Destructor Documentation

11.7.1.2 ~CChannelTestDeviceNet() ~CChannelTestDeviceNet ()

11.7.1.1 CChannelTestDeviceNet() CChannelTestDeviceNet ()

```
11.7.2 Member Function Documentation
```

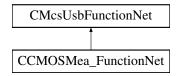
```
11.7.2.1 SetAmplitude() void SetAmplitude (
unsigned int Amplitude )
```

```
11.7.2.3 SetFrequency() void SetFrequency (
unsigned int Frequency )
```

```
11.7.2.4 SetWaveform() void SetWaveform (
          unsigned int Waveform )
```

11.8 CCMOSMea_FunctionNet Class Reference

Inheritance diagram for CCMOSMea_FunctionNet:



Public Member Functions

- CCMOSMea_FunctionNet (CMcsUsbNet[^] mcsusb, CMcsUsbFunctionPointerContainer[^] cMOSMea_←
 FunctionPointerContainer)
- CCMOSMea_FunctionNet (CMcsUsbNet[^] mcsusb)
- void SetADCInputOffset (int32 t offset)
- int32_t GetADCInputOffset ()
- void SetSourceDrain (int32 t voltage)
- int32_t GetSourceDrain ()
- void SetSourceGate (int32_t voltage)
- int32 t GetSourceGate ()
- void SetSourceBulk (int32 t voltage)
- int32 t GetSourceBulk ()
- void SetGate (int32_t voltage)
- int32 t GetGate ()
- void SetBath (int32_t voltage)
- int32 t GetBath ()
- · int32 t GetGNDI ()
- int32_t GetVDDI ()
- int32 t GetVDD3I ()
- void UpdateTransistorVoltages ()
- bool AreTransistorVoltagesSet ()
- void PowerChip (bool on)
- bool IsChipPowered ()
- enCMosMeaChipType DetectChipType ()
- void SetGateToVOP ()
- · void SetGateFloating ()
- bool IsGateFloating ()
- void VOPSTimerSetResetTimes (uint32_t ResetTime, uint32_t IntervalTime)
- void VOPSTimerSetResetTimes (uint32 t ResetTime, uint32 t IntervalTime, uint32 t HPFilterResetTime)
- void SetBathMode (CMOSMeaBathModeEnumNet Mode)
- CMOSMeaBathModeEnumNet GetBathMode ()
- void SetNeurochipMemoryData (uint16_t MemAddress, uint32_t MemData)
- void SetNeurochipMemoryData (uint16 t MemAddress, array< uint32 t >^ MemData)
- uint32 t GetNeurochipMemoryData (uint16 t MemAddress)
- array< uint32_t > ^ GetNeurochipMemoryData (uint16_t MemAddress, uint32_t ReqestLength)
- uint32_t GetNeurochipMemorySize ()
- uint32_t GetMaxNumOfColumns (uint32_t Samplerate)
- void SetStimulusSites (List< int16_t >^ SwitchPosition)
- List< int16 t > ^ GetStimulusSites ()
- void ClearSTGOutput (uint32_t Channel)
- uint32 t GetNumberOfSupportedGroups ()
- uint32_t GetNumberOfSupportedGroups (uint32_t virtualDevice)
- DacqGroupChannelEnumNet GetGroupID (uint32_t Index)
- DacqGroupChannelEnumNet GetGroupID (uint32 t Index, uint32 t virtualDevice)
- uint32_t GetGroupNumberOfChannels (DacqGroupChannelEnumNet GroupID)
- uint32_t GetGroupNumberOfChannels (DacqGroupChannelEnumNet GroupID, uint32_t virtualDevice)
- DacqMeaGroupTypeEnumNet GetGroupType (DacqGroupChannelEnumNet GroupID)
- void EnableChannelsInGroup (DacqGroupChannelEnumNet GroupID, List< bool >^ EnabledChannelsBit← Map)
- void EnableChannelsInGroup (DacqGroupChannelEnumNet GroupID, List< bool >[^] EnabledChannelsBit←
 Map, uint32_t virtualDevice)
- List< bool > ^ GetEnabledChannelsInGroup (DacqGroupChannelEnumNet GroupID)

- List< bool > ^ GetEnabledChannelsInGroup (DacqGroupChannelEnumNet GroupID, uint32_t virtualDevice)
- SampleSizeNet GetGroupSampleSize (DacqGroupChannelEnumNet GroupID)
- SampleSizeNet GetGroupSampleSize (DacqGroupChannelEnumNet GroupID, uint32 t virtualDevice)
- uint32_t GetGroupResolutionPerDigit (DacqGroupChannelEnumNet GroupID)
- uint32 t GetGroupResolutionPerDigit (DacqGroupChannelEnumNet GroupID, uint32 t virtualDevice)
- CMOSMeaValueUnitEnumNet GetGroupUnit (DacqGroupChannelEnumNet GroupID)
- CMOSMeaValueUnitEnumNet GetGroupUnit (DacqGroupChannelEnumNet GroupID, uint32 t virtualDevice)
- int32 t GetGroupDCOffset (DacqGroupChannelEnumNet GroupID)
- int32 t GetGroupDCOffset (DacqGroupChannelEnumNet GroupID, uint32 t virtualDevice)
- int32 t GetGroupADCBits (DacqGroupChannelEnumNet GroupID)
- int32 t GetGroupADCBits (DacqGroupChannelEnumNet GroupID, uint32 t virtualDevice)
- uint32_t GetGroupChannelBitmaskBySelect (DacqGroupChannelEnumNet GroupID, uint32_t Channel
 — Number)
- uint32_t GetGroupChannelBitmaskBySelect (DacqGroupChannelEnumNet GroupID, uint32_t Channel← Number, uint32_t virtualDevice)
- CMOSMeaInterfaceADCEnumNet GetGroupChannelBitmaskInterfaceADC (uint32 t ChannelNumber)
- CMOSMeaInterfaceADCEnumNet GetGroupChannelBitmaskInterfaceADC (uint32_t ChannelNumber, uint32_t virtualDevice)
- CMOSMealFDigChannelEnumNet GetGroupChannelBitmaskIFDigChannels (uint32_t ChannelNumber)
- CMOSMealFDigChannelEnumNet GetGroupChannelBitmasklFDigChannels (uint32_t ChannelNumber, uint32_t virtualDevice)
- CMOSMeaHeadstage1NCBathCurrentEnumNet GetGroupChannelBitmaskHS1NCBathCurrent (uint32_t ChannelNumber)
- CMOSMeaHeadstage1NCBathCurrentEnumNet GetGroupChannelBitmaskHS1NCBathCurrent (uint32_t ChannelNumber, uint32_t virtualDevice)
- CMOSMeaHeadstage1NCCol2CurrentEnumNet GetGroupChannelBitmaskHS1NCCol2Current (uint32_t ChannelNumber)
- CMOSMeaHeadstage1NCCol2CurrentEnumNet GetGroupChannelBitmaskHS1NCCol2Current (uint32_t ChannelNumber, uint32_t virtualDevice)
- CMOSMeaHeadstage1NChipTempEnumNet GetGroupChannelBitmaskHS1NChipTemp (uint32_t Channel
 — Number)
- CMOSMeaHeadstage1NChipTempEnumNet GetGroupChannelBitmaskHS1NChipTemp (uint32_t Channel

 Number, uint32_t virtualDevice)
- CMOSMeaSTG1DACSignalEnumNet GetGroupChannelBitmaskSTG1DACSignal (uint32 t ChannelNumber)
- CMOSMeaSTG1DACSignalEnumNet GetGroupChannelBitmaskSTG1DACSignal (uint32_t ChannelNumber, uint32_t virtualDevice)
- CMOSMeaHS1SidebandEnumNet GetGroupChannelBitmaskHS1Sidebands (uint32 t ChannelNumber)
- CMOSMeaHS1SidebandEnumNet GetGroupChannelBitmaskHS1Sidebands (uint32_t ChannelNumber, uint32_t virtualDevice)
- CMOSMeaHS1TriggerStatusEnumNet GetGroupChannelBitmaskHS1TriggerStatus (uint32_t Channel↔ Number)
- CMOSMeaHS1TriggerStatusEnumNet GetGroupChannelBitmaskHS1TriggerStatus (uint32_t Channel
 — Number, uint32_t virtualDevice)
- CMOSMeaPacketFrameContextGroupEnumNet GetGroupChannelBitmaskPacketFrameContext (uint32_

 t ChannelNumber)
- CMOSMeaPacketFrameContextGroupEnumNet GetGroupChannelBitmaskPacketFrameContext (uint32_← t ChannelNumber, uint32 t virtualDevice)

11.8.1 Constructor & Destructor Documentation

```
11.8.1.1 CCMOSMea_FunctionNet() [1/2] CCMOSMea_FunctionNet (
              CMcsUsbNet^ mcsusb,
              {\tt CMcsUsbFunctionPointerContainer}^{\land} \  \, {\tt cMOSMea\_FunctionPointerContainer} \  \, )
11.8.1.2 CCMOSMea_FunctionNet() [2/2] CCMOSMea_FunctionNet (
              CMcsUsbNet^ mcsusb )
11.8.2 Member Function Documentation
11.8.2.1 AreTransistorVoltagesSet() bool AreTransistorVoltagesSet ()
11.8.2.2 ClearSTGOutput() void ClearSTGOutput (
              uint32_t Channel )
11.8.2.3 DetectChipType() enCMosMeaChipType DetectChipType ()
11.8.2.4 EnableChannelsInGroup() [1/2] void EnableChannelsInGroup (
              DacqGroupChannelEnumNet GroupID,
              List<br/>< bool >^{\land} EnabledChannelsBitMap )
{\bf 11.8.2.5} \quad \textbf{EnableChannelsInGroup() [2/2]} \quad \texttt{void EnableChannelsInGroup (}
              DacqGroupChannelEnumNet GroupID,
              List<br/>< bool >^{\wedge} EnabledChannelsBitMap,
              uint32_t virtualDevice )
11.8.2.6 GetADCInputOffset() int32_t GetADCInputOffset ( )
11.8.2.7 GetBath() int32_t GetBath ()
```

```
11.8.2.8 GetBathMode() CMOSMeaBathModeEnumNet GetBathMode ( )
\textbf{11.8.2.9} \quad \textbf{GetEnabledChannelsInGroup()} \; \texttt{[1/2]} \quad \texttt{List} < \texttt{bool} > \; ^{\wedge} \; \texttt{GetEnabledChannelsInGroup} \; \; \texttt{(}
               DacqGroupChannelEnumNet GroupID )
11.8.2.10 GetEnabledChannelsInGroup() [2/2] List<br/>bool> ^ GetEnabledChannelsInGroup (
               DacqGroupChannelEnumNet GroupID,
               uint32_t virtualDevice )
11.8.2.11 GetGate() int32_t GetGate ()
11.8.2.12 GetGNDI() int32_t GetGNDI ()
11.8.2.13 GetGroupADCBits() [1/2] int32_t GetGroupADCBits (
               {\tt DacqGroupChannelEnumNet} \  \, \textit{GroupID} \  \, )
\textbf{11.8.2.14} \quad \textbf{GetGroupADCBits() [2/2]} \quad \texttt{int32\_t GetGroupADCBits ()}
               DacqGroupChannelEnumNet GroupID,
               uint32_t virtualDevice )
11.8.2.15 GetGroupChannelBitmaskBySelect() [1/2] uint32_t GetGroupChannelBitmaskBySelect (
               DacqGroupChannelEnumNet GroupID,
               uint32_t ChannelNumber )
11.8.2.16 GetGroupChannelBitmaskBySelect() [2/2] uint32_t GetGroupChannelBitmaskBySelect (
               DacqGroupChannelEnumNet GroupID,
               uint32_t ChannelNumber,
               uint32_t virtualDevice )
```

```
11.8.2.17 GetGroupChannelBitmaskHS1NCBathCurrent() [1/2] CMOSMeaHeadstage1NCBathCurrentEnumNet
GetGroupChannelBitmaskHS1NCBathCurrent (
            uint32_t ChannelNumber )
11.8.2.18 GetGroupChannelBitmaskHS1NCBathCurrent() [2/2] CMOSMeaHeadstage1NCBathCurrentEnumNet
GetGroupChannelBitmaskHS1NCBathCurrent (
            uint32_t ChannelNumber,
            uint32_t virtualDevice )
11.8.2.19 GetGroupChannelBitmaskHS1NCCol2Current() [1/2] CMOSMeaHeadstage1NCCol2CurrentEnumNet
GetGroupChannelBitmaskHS1NCCol2Current (
            uint32_t ChannelNumber )
11.8.2.20 GetGroupChannelBitmaskHS1NCCol2Current() [2/2] CMOSMeaHeadstage1NCCol2CurrentEnumNet
GetGroupChannelBitmaskHS1NCCol2Current (
            uint32_t ChannelNumber,
            uint32_t virtualDevice )
11.8.2.21 GetGroupChannelBitmaskHS1NChipTemp() [1/2] CMOSMeaHeadstagelNChipTempEnumNet Get↔
GroupChannelBitmaskHS1NChipTemp (
            uint32_t ChannelNumber )
11.8.2.22 GetGroupChannelBitmaskHS1NChipTemp() [2/2] CMOSMeaHeadstagelNChipTempEnumNet Get←
GroupChannelBitmaskHS1NChipTemp (
            uint32_t ChannelNumber,
            uint32_t virtualDevice )
11.8.2.23 GetGroupChannelBitmaskHS1Sidebands() [1/2] CMOSMeaHS1SidebandEnumNet GetGroup←
ChannelBitmaskHS1Sidebands (
            uint32_t ChannelNumber )
11.8.2.24 GetGroupChannelBitmaskHS1Sidebands() [2/2] CMOSMeaHS1SidebandEnumNet GetGroup↔
ChannelBitmaskHS1Sidebands (
            uint32_t ChannelNumber,
            uint32_t virtualDevice )
```

```
11.8.2.25 GetGroupChannelBitmaskHS1TriggerStatus() [1/2] CMOSMeaHS1TriggerStatusEnumNet Get↔
GroupChannelBitmaskHS1TriggerStatus (
            uint32_t ChannelNumber )
11.8.2.26 GetGroupChannelBitmaskHS1TriggerStatus() [2/2] CMOSMeaHS1TriggerStatusEnumNet Get↔
GroupChannelBitmaskHS1TriggerStatus (
            uint32_t ChannelNumber,
            uint32_t virtualDevice )
11.8.2.27 GetGroupChannelBitmasklFDigChannels() [1/2] CMOSMeaIFDigChannelEnumNet GetGroup↔
ChannelBitmaskIFDigChannels (
             uint32_t ChannelNumber )
11.8.2.28 GetGroupChannelBitmaskIFDigChannels() [2/2] CMOSMeaIFDigChannelEnumNet GetGroup↔
ChannelBitmaskIFDigChannels (
            uint32_t ChannelNumber,
             uint32_t virtualDevice )
11.8.2.29 GetGroupChannelBitmaskInterfaceADC() [1/2] CMOSMeaInterfaceADCEnumNet GetGroup↔
ChannelBitmaskInterfaceADC (
            uint32_t ChannelNumber )
11.8.2.30 GetGroupChannelBitmaskInterfaceADC() [2/2] CMOSMeaInterfaceADCEnumNet GetGroup←
ChannelBitmaskInterfaceADC (
            uint32_t ChannelNumber,
            uint32_t virtualDevice )
11.8.2.31 GetGroupChannelBitmaskPacketFrameContext() [1/2] CMOSMeaPacketFrameContextGroupEnumNet
{\tt GetGroupChannelBitmaskPacketFrameContext} \ \ (
            uint32_t ChannelNumber )
11.8.2.32 GetGroupChannelBitmaskPacketFrameContext() [2/2] CMOSMeaPacketFrameContextGroupEnumNet
GetGroupChannelBitmaskPacketFrameContext (
            uint32_t ChannelNumber,
             uint32_t virtualDevice )
```

```
11.8.2.33 GetGroupChannelBitmaskSTG1DACSignal() [1/2] CMOSMeaSTG1DACSignalEnumNet GetGroup←
ChannelBitmaskSTG1DACSignal (
             uint32_t ChannelNumber )
11.8.2.34 GetGroupChannelBitmaskSTG1DACSignal() [2/2] CMOSMeaSTG1DACSignalEnumNet GetGroup↔
ChannelBitmaskSTG1DACSignal (
             uint32_t ChannelNumber,
             uint32_t virtualDevice )
11.8.2.35 GetGroupDCOffset() [1/2] int32_t GetGroupDCOffset (
             DacqGroupChannelEnumNet GroupID )
\textbf{11.8.2.36} \quad \textbf{GetGroupDCOffset() [2/2]} \quad \texttt{int32\_t GetGroupDCOffset ()}
             DacqGroupChannelEnumNet GroupID,
             uint32_t virtualDevice )
11.8.2.37 GetGroupID() [1/2] DacqGroupChannelEnumNet GetGroupID (
             uint32_t Index )
11.8.2.38 GetGroupID() [2/2] DacqGroupChannelEnumNet GetGroupID (
             uint32_t Index,
             uint32_t virtualDevice )
11.8.2.39 GetGroupNumberOfChannels() [1/2] uint32_t GetGroupNumberOfChannels (
             DacqGroupChannelEnumNet GroupID )
11.8.2.40 GetGroupNumberOfChannels() [2/2] uint32_t GetGroupNumberOfChannels (
             DacqGroupChannelEnumNet GroupID,
             uint32\_t virtualDevice )
11.8.2.41 GetGroupResolutionPerDigit() [1/2] uint32_t GetGroupResolutionPerDigit (
             DacqGroupChannelEnumNet GroupID )
```

```
11.8.2.42 GetGroupResolutionPerDigit() [2/2] uint32_t GetGroupResolutionPerDigit (
             DacqGroupChannelEnumNet GroupID,
             uint32_t virtualDevice )
11.8.2.43 GetGroupSampleSize() [1/2] SampleSizeNet GetGroupSampleSize (
             DacqGroupChannelEnumNet GroupID )
11.8.2.44 GetGroupSampleSize() [2/2] SampleSizeNet GetGroupSampleSize (
             DacqGroupChannelEnumNet GroupID,
             uint32_t virtualDevice )
11.8.2.45 GetGroupType() [1/2] DacqMeaGroupTypeEnumNet GetGroupType (
             DacqGroupChannelEnumNet GroupID )
11.8.2.46 GetGroupType() [2/2] DacqMeaGroupTypeEnumNet GetGroupType (
             DacqGroupChannelEnumNet GroupID,
             uint32_t virtualDevice )
11.8.2.47 GetGroupUnit() [1/2] CMOSMeaValueUnitEnumNet GetGroupUnit (
             DacqGroupChannelEnumNet GroupID )
11.8.2.48 GetGroupUnit() [2/2] CMOSMeaValueUnitEnumNet GetGroupUnit (
             DacqGroupChannelEnumNet GroupID,
             uint32_t virtualDevice )
11.8.2.49 GetMaxNumOfColumns() uint32_t GetMaxNumOfColumns (
             uint32_t Samplerate )
11.8.2.50 GetNeurochipMemoryData() [1/2] uint32_t GetNeurochipMemoryData (
             uint16_t MemAddress )
```

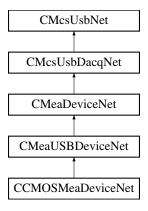
```
11.8.2.51 GetNeurochipMemoryData() [2/2] array<uint32_t> ^ GetNeurochipMemoryData (
            uint16_t MemAddress,
            uint32_t ReqestLength )
11.8.2.52 GetNeurochipMemorySize() uint32_t GetNeurochipMemorySize ( )
11.8.2.53 GetNumberOfSupportedGroups() [1/2] uint32_t GetNumberOfSupportedGroups ( )
11.8.2.54 GetNumberOfSupportedGroups() [2/2] uint32_t GetNumberOfSupportedGroups (
            uint32_t virtualDevice )
11.8.2.55 GetSourceBulk() int32_t GetSourceBulk ( )
11.8.2.56 GetSourceDrain() int32_t GetSourceDrain ( )
11.8.2.57 GetSourceGate() int32_t GetSourceGate ()
11.8.2.58 GetStimulusSites() List<int16_t> ^ GetStimulusSites ()
11.8.2.59 GetVDD3I() int32_t GetVDD3I ( )
11.8.2.60 GetVDDI() int32_t GetVDDI ()
11.8.2.61 IsChipPowered() bool IsChipPowered ( )
```

```
11.8.2.63 PowerChip() void PowerChip (
            bool on )
11.8.2.64 SetADCInputOffset() void SetADCInputOffset (
            int32_t offset )
11.8.2.65 SetBath() void SetBath (
            int32_t voltage )
11.8.2.66 SetBathMode() void SetBathMode (
            CMOSMeaBathModeEnumNet Mode )
11.8.2.67 SetGate() void SetGate (
            int32_t voltage )
11.8.2.68 SetGateFloating() void SetGateFloating ( )
11.8.2.69 SetGateToVOP() void SetGateToVOP ( )
11.8.2.70 SetNeurochipMemoryData() [1/2] void SetNeurochipMemoryData (
            uint16_t MemAddress,
            array < uint32_t >^{\land} MemData)
11.8.2.71 SetNeurochipMemoryData() [2/2] void SetNeurochipMemoryData (
            uint16_t MemAddress,
            uint32_t MemData )
```

```
11.8.2.72 SetSourceBulk() void SetSourceBulk (
             int32_t voltage )
11.8.2.73 SetSourceDrain() void SetSourceDrain (
             int32_t voltage )
11.8.2.74 SetSourceGate() void SetSourceGate (
             int32_t voltage )
11.8.2.75 SetStimulusSites() void SetStimulusSites (
             List< int16_t >^{\land} SwitchPosition )
11.8.2.76 UpdateTransistorVoltages() void UpdateTransistorVoltages ( )
11.8.2.77 VOPSTimerSetResetTimes() [1/2] void VOPSTimerSetResetTimes (
             uint32_t ResetTime,
             uint32_t IntervalTime )
11.8.2.78 VOPSTimerSetResetTimes() [2/2] void VOPSTimerSetResetTimes (
             uint32_t ResetTime,
             uint32_t IntervalTime,
             uint32_t HPFilterResetTime )
```

11.9 CCMOSMeaDeviceNet Class Reference

Inheritance diagram for CCMOSMeaDeviceNet:



Classes

· class CRegionOfInterestRect

Public Member Functions

- CCMOSMeaDeviceNet (void)
- ∼CCMOSMeaDeviceNet ()
- void SetBaseSamplerate (int BaseSamplerate)
- int GetBaseSamplerate ()
- array< int > ^ GetAvailableBaseSamplerates ()
- int GetMaxReadableColumns ()
- void SetRegionOfInterests (System::Collections::Generic::Dictionary< int, CRegionOfInterestRect^>^ rois)
- void UpdateChannelBlock (int queuesize, int threshold, int channels in block)
- System::Collections::Generic::Dictionary< int, array< array< int16_t >^>^> ^ GetCMOSDataDictionary (int frames, [System::Runtime::InteropServices::Out]int % frames ret)
- System::Collections::Generic::Dictionary< int, array< uint16_t >^> ^ GetChannelDataUI16 (DacqGroupChannelEnumNet group, int frames, [System::Runtime::InteropServices::Out]int % frames_ret)
- System::Collections::Generic::Dictionary< int, array< int16_t >^> ^ GetChannelDataI16 (DacqGroupChannelEnumNet group, int frames, [System::Runtime::InteropServices::Out]int % frames_ret)
- System::Collections::Generic::Dictionary< int, array< uint32_t >^> ^ GetChannelDataUI32 (DacqGroupChannelEnumNet group, int frames, [System::Runtime::InteropServices::Out]int % frames ret)
- System::Collections::Generic::Dictionary< int, array< int32_t >^> ^ GetChannelDatal32 (DacqGroupChannelEnumNet group, int frames, [System::Runtime::InteropServices::Out]int % frames_ret)

Properties

- CCMOSMea_FunctionNet^ CMosMea [get]
- CStimulusFunctionNet[^] Stimulus [get]

Additional Inherited Members

11.9.1 Constructor & Destructor Documentation

```
11.9.1.1 CCMOSMeaDeviceNet() CCMOSMeaDeviceNet (
void )
```

11.9.1.2 ~CCMOSMeaDeviceNet() ~CCMOSMeaDeviceNet ()

11.9.2 Member Function Documentation

```
11.9.2.1 GetAvailableBaseSamplerates() array<int> ^ GetAvailableBaseSamplerates ()
11.9.2.2 GetBaseSamplerate() int GetBaseSamplerate ( )
11.9.2.3 GetChannelDatal16() System::Collections::Generic::Dictionary<int, array<int16_t>^> ^
GetChannelDataI16 (
                                            DacqGroupChannelEnumNet group,
                                            int frames,
                                             [System::Runtime::InteropServices::Out] int % frames_ret )
11.9.2.4 GetChannelDatal32() System::Collections::Generic::Dictionary<int, array<int32_t>^> ^
GetChannelDataI32 (
                                            DacqGroupChannelEnumNet group,
                                            int frames,
                                            [System::Runtime::InteropServices::Out] int % frames_ret )
11.9.2.5 GetChannelDataUl16() System::Collections::Generic::Dictionary<int, array<uint16_t>^>
^ GetChannelDataUI16 (
                                            DacqGroupChannelEnumNet group,
                                            int frames,
                                            [System::Runtime::InteropServices::Out] int % frames_ret )
11.9.2.6 GetChannelDataUl32() System::Collections::Generic::Dictionary<int, array<uint32_t>^>
^ GetChannelDataUI32 (
                                            {\tt DacqGroupChannelEnumNet} \ \ group,
                                            int frames,
                                             [System::Runtime::InteropServices::Out] int % frames_ret )
\textbf{11.9.2.7} \quad \textbf{GetCMOSDataDictionary()} \quad \textbf{System::Collections::Generic::Dictionary} < \textbf{int, array} < \textbf{array} < \textbf{int} 16 \leftrightarrow \textbf{orray} < \textbf{
 _{\rm t}>^{\wedge}>^{\wedge}> \(^{\text{GetCMOSDataDictionary}}\)
                                            int frames,
                                             [System::Runtime::InteropServices::Out] int % frames_ret )
11.9.2.8 GetMaxReadableColumns() int GetMaxReadableColumns ( )
```



```
11.9.2.10 SetRegionOfInterests() void SetRegionOfInterests (
```

```
System::Collections::Generic::Dictionary< int, CRegionOfInterestRect^>^ rois )
```

11.9.2.11 UpdateChannelBlock() void UpdateChannelBlock (

```
int queuesize,
int threshold,
int channels_in_block )
```

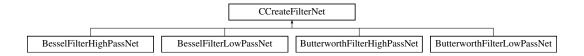
11.9.3 Property Documentation

```
11.9.3.1 CMosMea CCMOSMea_FunctionNet^ CMosMea [get]
```

```
11.9.3.2 Stimulus CStimulusFunctionNet^ Stimulus [get]
```

11.10 CCreateFilterNet Class Reference

Inheritance diagram for CCreateFilterNet:



Public Member Functions

- CCreateFilterNet (int numCoefSets, int order, double sampleRate, double cutoffFrequency, double scale)
- ∼CCreateFilterNet ()
- CFilterCoefficientsNet ^ GetBiQuad (int index)
- array< CFilterCoefficientsNet[^]> [^] GetBiQuads ()

Static Public Member Functions

- static int FindFilter (array< CFilterCoefficientsNet[^]>[^] coef, array< CCreateFilterNet[^]>[^] param)
- static int FindFilter (array< array< uint64_t >^> coef, array< CCreateFilterNet^> param, CFilterCoefficientsNet::s_FilterAttributesNet^ FiltAttr, bool DoMCSLegacyCompare)

Protected Member Functions

• CCreateFilterNet (int numCoefSets, CCreateFilter *pCreateFilter)

Properties

```
int NumCoefSets [get]
int Order [get]
double SampleRate [get]
double CutoffFrequency [get]
double Scale [get]
```

11.10.1 Constructor & Destructor Documentation

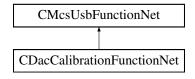
11.10.2 Member Function Documentation

CCreateFilter * pCreateFilter) [protected]

```
11.10.2.2 FindFilter() [2/2] static int FindFilter (
             array< CFilterCoefficientsNet^>^ coef,
             array< CCreateFilterNet^>^ param ) [static]
11.10.2.3 GetBiQuad() CFilterCoefficientsNet ^ GetBiQuad (
             int index )
11.10.2.4 GetBiQuads() array<CFilterCoefficientsNet^{\wedge}> ^{\wedge} GetBiQuads ( )
11.10.3 Property Documentation
11.10.3.1 CutoffFrequency double CutoffFrequency [get]
11.10.3.2 NumCoefSets int NumCoefSets [get]
11.10.3.3 Order int Order [get]
11.10.3.4 SampleRate double SampleRate [get]
11.10.3.5 Scale double Scale [get]
```

11.11 CDacCalibrationFunctionNet Class Reference

Inheritance diagram for CDacCalibrationFunctionNet:



Public Member Functions

CDacCalibrationFunctionNet (CMcsUsbNet[∧] mcsusb, CMcsUsbFunctionPointerContainer[∧] pDac
 — CalibrationFunctionPointerContainer)

Initializes a new instance of the CDacCalibrationFunctionNet class.

- CDacCalibrationFunctionNet (CMcsUsbNet[∧] mcsusb)
- virtual ~CDacCalibrationFunctionNet ()
- !CDacCalibrationFunctionNet ()
- void SetDacOffset (uint16_t dacChannel, int32_t offset)

Sets the offset of a DAC channel.

int32_t GetDacOffset (uint16_t dacChannel)

Gets the offset of a DAC channel.

• void BurnDacOffset (uint16_t dacChannel)

Writes the offset of a DAC channel to permanent memory.

Additional Inherited Members

11.11.1 Detailed Description

11.11.2 Constructor & Destructor Documentation

```
11.11.2.1 CDacCalibrationFunctionNet() [1/2] CDacCalibrationFunctionNet (

CMcsUsbNet^ mcsusb,

CMcsUsbFunctionPointerContainer^ pDacCalibrationFunctionPointerContainer)
```

Initializes a new instance of the CDacCalibrationFunctionNet class.

```
11.11.2.2 CDacCalibrationFunctionNet() [2/2] CDacCalibrationFunctionNet (
CMcsUsbNet^ mcsusb)
```

```
11.11.2.3 ~CDacCalibrationFunctionNet() virtual ~CDacCalibrationFunctionNet ( ) [virtual]
```

```
11.11.2.4 "!CDacCalibrationFunctionNet() !CDacCalibrationFunctionNet ( )
```

11.11.3 Member Function Documentation

```
11.11.3.1 BurnDacOffset() void BurnDacOffset ( uint16_t dacChannel )
```

Writes the offset of a DAC channel to permanent memory.

Parameters

dacChannel	The DAC channel number.
------------	-------------------------

Gets the offset of a DAC channel.

Parameters

dacChannel	The DAC channel number.
------------	-------------------------

Returns

The offset in digits.

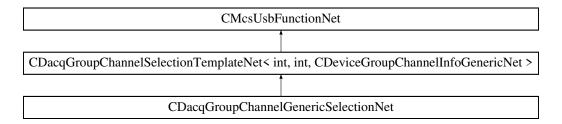
Sets the offset of a DAC channel.

Parameters

dacChannel	The DAC channel number.
offset	The offset in digits.

11.12 CDacqGroupChannelGenericSelectionNet Class Reference

Inheritance diagram for CDacqGroupChannelGenericSelectionNet:



Public Member Functions

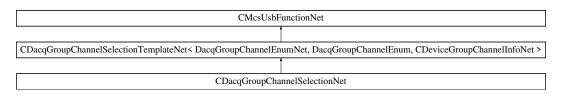
 $\bullet \ \ \mathsf{CDacqGroupChannelGenericSelectionNet} \ \ \mathsf{(CMcsUsbNet}^{\wedge} \ \ \mathsf{mcsusb)}$

11.12.1 Constructor & Destructor Documentation

11.12.1.1 CDacqGroupChannelGenericSelectionNet() CDacqGroupChannelGenericSelectionNet (
CMcsUsbNet^ mcsusb)

11.13 CDacqGroupChannelSelectionNet Class Reference

Inheritance diagram for CDacqGroupChannelSelectionNet:



Public Member Functions

CDacqGroupChannelSelectionNet (CMcsUsbNet[^] mcsusb)

Additional Inherited Members

11.13.1 Constructor & Destructor Documentation

```
11.13.1.1 CDacqGroupChannelSelectionNet() CDacqGroupChannelSelectionNet ( CMcsUsbNet^ mcsusb )
```

11.14 CDacqGroupChannelSelectionTemplateNet < DacqGroupChannelEnumTemplateNet, DacqGroupChannelEnumTemplate, CDeviceGroupChannelInfoTemplateNet > Class Template Reference

Inheritance diagram for CDacqGroupChannelSelectionTemplateNet< DacqGroupChannelEnumTemplateNet, DacqGroupChannelEnumTemplate, CDeviceGroupChannelInfoTemplateNet >:



Public Member Functions

- CDacqGroupChannelSelectionTemplateNet (CMcsUsbNet[^] mcsusb)
- uint32 t GetNumberOfSupportedGroups ()
- uint32_t GetNumberOfSupportedGroups (uint32_t virtualDevice)
- DacqGroupChannelEnumTemplateNet GetGroupID (uint32 t Index)
- DacqGroupChannelEnumTemplateNet GetGroupID (uint32 t Index, uint32 t virtualDevice)
- uint32 t GetGroupNumberOfChannels (DacqGroupChannelEnumTemplateNet GroupID)
- DacqMeaGroupTypeEnumNet GetGroupType (DacqGroupChannelEnumTemplateNet GroupID)
- DacqMeaGroupTypeEnumNet GetGroupType (DacqGroupChannelEnumTemplateNet GroupID, uint32_← t virtualDevice)
- void EnableChannelsInGroup (DacqGroupChannelEnumTemplateNet GroupID, List< bool >[^] Enabled←
 ChannelsBitMap)
- void EnableChannelsInGroup (DacqGroupChannelEnumTemplateNet GroupID, List< bool >[^] Enabled←
 ChannelsBitMap, uint32_t virtualDevice)
- List< bool > ^ GetEnabledChannelsInGroup (DacqGroupChannelEnumTemplateNet GroupID)
- List< bool > [^] GetEnabledChannelsInGroup (DacqGroupChannelEnumTemplateNet GroupID, uint32_← t virtualDevice)
- SampleSizeNet GetGroupSampleSize (DacqGroupChannelEnumTemplateNet GroupID)
- SampleSizeNet GetGroupSampleSize (DacqGroupChannelEnumTemplateNet GroupID, uint32_t virtual → Device)
- List< CDeviceGroupChannelInfoTemplateNet[^]> [^] GetDeviceGroupChannelInfos ()
- List< CDeviceGroupChannelInfoTemplateNet^> ^ GetDeviceGroupChannelInfos (uint32 t virtualDevice)

Additional Inherited Members

11.14.1 Constructor & Destructor Documentation

```
11.14.1.1 CDacqGroupChannelSelectionTemplateNet() CDacqGroupChannelSelectionTemplateNet (
CMcsUsbNet^ mcsusb )
```

11.14.2 Member Function Documentation

```
11.14.2.1 EnableChannelsInGroup() [1/2] void EnableChannelsInGroup (

DacqGroupChannelEnumTemplateNet GroupID,

List< bool >^ EnabledChannelsBitMap )
```

```
11.14.2.2 EnableChannelsInGroup() [2/2] void EnableChannelsInGroup (
DacqGroupChannelEnumTemplateNet GroupID,
```

```
List< bool > ^ EnabledChannelsBitMap, uint32_t virtualDevice)
```

```
11.14.2.3 GetDeviceGroupChannelInfos() [1/2] List<CDeviceGroupChannelInfoTemplateNet^> ^ Get←
DeviceGroupChannelInfos ( )
11.14.2.4 GetDeviceGroupChannelInfos() [2/2] List<CDeviceGroupChannelInfoTemplateNet^> ^ Get←
DeviceGroupChannelInfos (
              uint32_t virtualDevice )
11.14.2.5 GetEnabledChannelsInGroup() [1/2] List<br/>bool> ^ GetEnabledChannelsInGroup (
              {\tt DacqGroupChannelEnumTemplateNet} \ \ {\tt GroupID} \ )
11.14.2.6 GetEnabledChannelsInGroup() [2/2] List<br/>bool> ^ GetEnabledChannelsInGroup (
              DacqGroupChannelEnumTemplateNet GroupID,
              uint32_t virtualDevice )
11.14.2.7 GetGroupID() [1/2] DacqGroupChannelEnumTemplateNet GetGroupID (
              uint32_t Index )
\textbf{11.14.2.8} \quad \textbf{GetGroupID()} \  \, \textbf{[2/2]} \quad \texttt{DacqGroupChannelEnumTemplateNet} \  \, \textbf{GetGroupID} \  \, \textbf{(}
              uint32_t Index,
              uint32_t virtualDevice )
11.14.2.9 GetGroupNumberOfChannels() [1/2] uint32_t GetGroupNumberOfChannels (
              DacqGroupChannelEnumTemplateNet GroupID )
11.14.2.10 GetGroupNumberOfChannels() [2/2] uint32_t GetGroupNumberOfChannels (
              DacqGroupChannelEnumTemplateNet GroupID,
              uint32_t virtualDevice )
11.14.2.11 GetGroupSampleSize() [1/2] SampleSizeNet GetGroupSampleSize (
              DacqGroupChannelEnumTemplateNet GroupID )
```

```
11.14.2.13 GetGroupType() [1/2] DacqMeaGroupTypeEnumNet GetGroupType (
DacqGroupChannelEnumTemplateNet GroupID,
uint32_t virtualDevice )

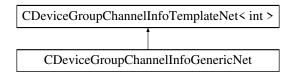
11.14.2.13 GetGroupType() [1/2] DacqMeaGroupTypeEnumNet GetGroupType (
DacqGroupChannelEnumTemplateNet GroupID )

11.14.2.14 GetGroupType() [2/2] DacqMeaGroupTypeEnumNet GetGroupType (
DacqGroupChannelEnumTemplateNet GroupID,
uint32_t virtualDevice )

11.14.2.15 GetNumberOfSupportedGroups() [1/2] uint32_t GetNumberOfSupportedGroups (
uint32_t virtualDevice )
```

11.15 CDeviceGroupChannelInfoGenericNet Class Reference

Inheritance diagram for CDeviceGroupChannelInfoGenericNet:



Public Member Functions

· CDeviceGroupChannelInfoGenericNet (int id, int channels, DacqMeaGroupTypeEnumNet type)

Additional Inherited Members

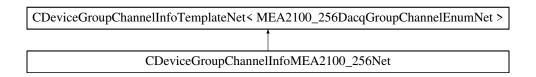
11.15.1 Constructor & Destructor Documentation

11.15.1.1 CDeviceGroupChannelInfoGenericNet() CDeviceGroupChannelInfoGenericNet (

```
int id,
int channels,
DacqMeaGroupTypeEnumNet type )
```

11.16 CDeviceGroupChannelInfoMEA2100_256Net Class Reference

Inheritance diagram for CDeviceGroupChannelInfoMEA2100_256Net:



Public Member Functions

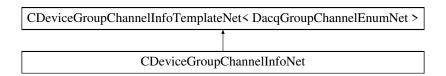
 CDeviceGroupChannelInfoMEA2100_256Net (MEA2100_256DacqGroupChannelEnumNet id, int channels, DacqMeaGroupTypeEnumNet type)

Additional Inherited Members

11.16.1 Constructor & Destructor Documentation

11.17 CDeviceGroupChannelInfoNet Class Reference

Inheritance diagram for CDeviceGroupChannelInfoNet:



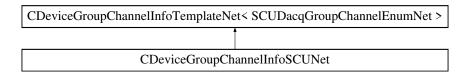
Public Member Functions

CDeviceGroupChannelInfoNet (DacqGroupChannelEnumNet id, int channels, DacqMeaGroupTypeEnumNet type)

11.17.1 Constructor & Destructor Documentation

11.18 CDeviceGroupChannelInfoSCUNet Class Reference

Inheritance diagram for CDeviceGroupChannelInfoSCUNet:



Public Member Functions

CDeviceGroupChannelInfoSCUNet (SCUDacqGroupChannelEnumNet id, int channels, DacqMeaGroupTypeEnumNet type)

Additional Inherited Members

11.18.1 Constructor & Destructor Documentation

11.19 CDeviceGroupChannelInfoTemplateNet< DacqGroupChannelEnumTemplateNet

> Class Template Reference

Public Member Functions

CDeviceGroupChannelInfoTemplateNet (DacqGroupChannelEnumTemplateNet id, int channels, DacqMeaGroupTypeEnumNet type)

Public Attributes

- DacqGroupChannelEnumTemplateNet GroupID
- · int NumberOfChannels
- DacqMeaGroupTypeEnumNet GroupType

11.19.1 Constructor & Destructor Documentation

11.19.1.1 CDeviceGroupChannelInfoTemplateNet() CDeviceGroupChannelInfoTemplateNet (

```
DacqGroupChannelEnumTemplateNet id,
int channels,
DacqMeaGroupTypeEnumNet type )
```

11.19.2 Member Data Documentation

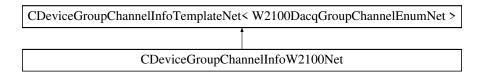
```
11.19.2.1 GroupID DacqGroupChannelEnumTemplateNet GroupID
```

11.19.2.2 GroupType DacqMeaGroupTypeEnumNet GroupType

11.19.2.3 NumberOfChannels int NumberOfChannels

11.20 CDeviceGroupChannelInfoW2100Net Class Reference

Inheritance diagram for CDeviceGroupChannelInfoW2100Net:



Public Member Functions

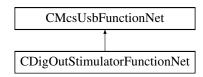
CDeviceGroupChannelInfoW2100Net (W2100DacqGroupChannelEnumNet id, int channels, DacqMeaGroupTypeEnumNet type)

11.20.1 Constructor & Destructor Documentation

11.21 CDigOutStimulatorFunctionNet Class Reference

CDigOutStimulatorFunctionNet is the class of the DigOut stimulator function class.

Inheritance diagram for CDigOutStimulatorFunctionNet:



Public Member Functions

CDigOutStimulatorFunctionNet (CMcsUsbNet[^] mcsusb, CMcsUsbFunctionPointerContainer[^] pDigOut
 — StimulatorFunctionPointerContainer)

Initializes a new instance of the CDigOutStimulatorFunctionNet class.

- CDigOutStimulatorFunctionNet (CMcsUsbNet[^] mcsusb)
- virtual ~CDigOutStimulatorFunctionNet ()
- !CDigOutStimulatorFunctionNet ()
- void ClearChannel (int32_t NrChannel)

clear stimulation pattern

CStimulusFunctionNet::StimulusDeviceDataAndUnrolledData ^ PrepareChannelData (array< int32_t >^ Amplitude, array< uint64_t >^ Duration)

prepares the channel data for the device and unrolles the data for the GUI

void SendChannelData (int32_t NrChannel, CStimulusFunctionNet::StimulusDeviceDataAndUnrolledData[^] device_data_and_unrolled)

send or append stimulation pattern

int32_t GetNumberOfChannels ()

get the number of channels available on the device

void SetGlobalRepeat (int32_t NrChannel, bool value)

set repeat whole stimulation pattern

bool GetGlobalRepeat (int32_t NrChannel)

get repeat whole stimulation pattern

• void SetStartTriggerSlope (int32_t NrChannel, DigitalStimulatorTriggerSlopeEnumNet Condition)

sets start condition of digital out stimulator

• DigitalStimulatorTriggerSlopeEnumNet GetStartTriggerSlope (int32_t NrChannel)

queries start condition of digital out stimulator

void SetStopTriggerSlope (int32_t NrChannel, DigitalStimulatorTriggerSlopeEnumNet Condition)

sets stop condition of digital out stimulator

• DigitalStimulatorTriggerSlopeEnumNet GetStopTriggerSlope (int32_t NrChannel)

queries stop condition of digital out stimulator

11.21.1 Detailed Description

CDigOutStimulatorFunctionNet is the class of the DigOut stimulator function class.

11.21.2 Constructor & Destructor Documentation

```
11.21.2.1 CDigOutStimulatorFunctionNet() [1/2] CDigOutStimulatorFunctionNet (

CMcsUsbNet^ mcsusb,

CMcsUsbFunctionPointerContainer^ pDigOutStimulatorFunctionPointerContainer)
```

Initializes a new instance of the CDigOutStimulatorFunctionNet class.

```
11.21.2.2 CDigOutStimulatorFunctionNet() [2/2] CDigOutStimulatorFunctionNet (
CMcsUsbNet^ mcsusb )
```

11.21.2.3 ~CDigOutStimulatorFunctionNet() virtual ~CDigOutStimulatorFunctionNet () [virtual]

```
11.21.2.4 "!CDigOutStimulatorFunctionNet() !CDigOutStimulatorFunctionNet ( )
```

11.21.3 Member Function Documentation

```
11.21.3.1 ClearChannel() void ClearChannel (
    int32_t NrChannel )
```

clear stimulation pattern

Parameters

NrChannel the channel to clear

get repeat whole stimulation pattern

Parameters

NrChannel channel number

Returns

current value

11.21.3.3 GetNumberOfChannels() int32_t GetNumberOfChannels ()

get the number of channels available on the device

Returns

the number of channels

11.21.3.4 GetStartTriggerSlope() DigitalStimulatorTriggerSlopeEnumNet GetStartTriggerSlope (int32_t NrChannel)

queries start condition of digital out stimulator

Parameters

NrChannel channel number

Returns

start condition (rising or falling edge)

11.21.3.5 GetStopTriggerSlope() DigitalStimulatorTriggerSlopeEnumNet GetStopTriggerSlope (int32_t NrChannel)

queries stop condition of digital out stimulator

Parameters

NrChannel channel number

Returns

stop condition (rising or falling edge)

prepares the channel data for the device and unrolles the data for the GUI

Parameters

Amplitude	array of amplitudes
Duration	array of durations

Returns

send or append stimulation pattern

Parameters

NrChannel	the channel to send data to	
device_data_and_unrolled	internal, use value obtained from PrepareChannelData	

set repeat whole stimulation pattern

Parameters

NrChannel	channel number
value	new value

sets start condition of digital out stimulator

Parameters

NrChannel	channel number
Condition	start condition (rising or falling edge)

sets stop condition of digital out stimulator

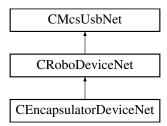
Parameters

NrChannel	channel number
Condition	stop condition (rising or falling edge)

11.22 CEncapsulatorDeviceNet Class Reference

CEncapsulatorDeviceNet is the to control the MCS HiClamp device

Inheritance diagram for CEncapsulatorDeviceNet:



Public Member Functions

- CEncapsulatorDeviceNet (void)
- CRoboFluidDeviceNet ^ GetRoboFluidDevice ()

Additional Inherited Members

11.22.1 Detailed Description

CEncapsulatorDeviceNet is the to control the MCS HiClamp device

11.22.2 Constructor & Destructor Documentation

```
11.22.2.1 CEncapsulatorDeviceNet() CEncapsulatorDeviceNet (
```

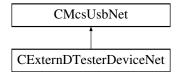
11.22.3 Member Function Documentation

```
11.22.3.1 GetRoboFluidDevice() CRoboFluidDeviceNet ^ GetRoboFluidDevice ( )
```

11.23 CExternDTesterDeviceNet Class Reference

CExternDTesterDeviceNet is the class to access the ExternD Tester (Handheld Device Tester D)

Inheritance diagram for CExternDTesterDeviceNet:



Public Member Functions

• CExternDTesterDeviceNet ()

Initializes a new instance of the CExternDTesterDeviceNet class.

- virtual ~CExternDTesterDeviceNet ()
- !CExternDTesterDeviceNet ()
- array< uint8_t > $^{\land}$ Read (int configString_Length)

Reads the config string from the device.

• String ^ Read2 ()

Reads the config string from the device.

void Write (array< uint8_t >^ configString)

Reads the config string from the device.

void Write2 (String[^] configString)

Reads the config string from the device.

Additional Inherited Members

11.23.1 Detailed Description

CExternDTesterDeviceNet is the class to access the ExternD Tester (Handheld Device Tester D)

11.23.2 Constructor & Destructor Documentation

```
11.23.2.1 CExternDTesterDeviceNet() CExternDTesterDeviceNet ()
```

Initializes a new instance of the CExternDTesterDeviceNet class.

```
11.23.2.2 ~CExternDTesterDeviceNet() virtual ~CExternDTesterDeviceNet ( ) [virtual]
```

```
11.23.2.3 "!CExternDTesterDeviceNet() !CExternDTesterDeviceNet ()
```

11.23.3 Member Function Documentation

Reads the config string from the device.

Parameters

```
configString_Length The maximal length of configString.
```

Returns

The config string.

```
11.23.3.2 Read2() String ^ Read2 ()
```

Reads the config string from the device.

Returns

The config string.

```
11.23.3.3 Write() void Write ( array < uint8_t >^{\wedge} configString)
```

Reads the config string from the device.

Parameters

configString	The config string.
--------------	--------------------

```
11.23.3.4 Write2() void Write2 (
String^ configString)
```

Reads the config string from the device.

Parameters

configString	The config string.
--------------	--------------------

11.24 CFilterCoefficientsNet Class Reference

Classes

struct s_FilterAttributesNet

Public Member Functions

- CFilterCoefficientsNet ()
- CFilterCoefficientsNet (double b0, double b1, double b2, double a1, double a2)
- CFilterCoefficientsNet (double b0, double b1, double a1)
- CFilterCoefficientsNet (array< double >[^] b, array< double >[^] a)
- ∼CFilterCoefficientsNet ()
- bool IsEqual (array< uint64_t >^ coefficients, s_FilterAttributesNet^ FiltAttr)
- bool IsEqual (array< uint64_t >^ coefficients, s_FilterAttributesNet^ FiltAttr, bool DoMCSLegacyCompare)
- uint64_t GetUintB (int index, s_FilterAttributesNet[^] FiltAttr)
- uint64_t GetUintA (int index, s_FilterAttributesNet[^] FiltAttr)

Properties

```
array< double > A [get]
array< double > B [get]
```

11.24.1 Constructor & Destructor Documentation

11.24.1.1 CFilterCoefficientsNet() [1/4] CFilterCoefficientsNet ()

```
11.24.1.2 CFilterCoefficientsNet() [2/4] CFilterCoefficientsNet (
              double b0,
              double b1,
              double b2,
              double a1,
              double a2 )
11.24.1.3 CFilterCoefficientsNet() [3/4] CFilterCoefficientsNet (
              double b0,
              double b1,
              double a1 )
11.24.1.4 CFilterCoefficientsNet() [4/4] CFilterCoefficientsNet (
              array< double >^{\wedge} b,
              array< double >^{\wedge} a)
11.24.1.5 ~CFilterCoefficientsNet() ~CFilterCoefficientsNet ()
11.24.2 Member Function Documentation
11.24.2.1 GetUintA() uint64_t GetUintA (
              int index,
              s_FilterAttributesNet^ FiltAttr )
\textbf{11.24.2.2} \quad \textbf{GetUintB()} \quad \texttt{uint64\_t GetUintB} \ \ (
              int index,
              s_FilterAttributesNet^ FiltAttr )
11.24.2.3 | IsEqual() [1/2] | bool IsEqual (
              array< uint64_t >^{\land} coefficients,
              s_FilterAttributesNet^ FiltAttr )
```

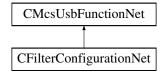
11.24.3 Property Documentation

```
11.24.3.1 A array< double>^ A [get]
```

```
11.24.3.2 B array< double>^{\land} B [get]
```

11.25 CFilterConfigurationNet Class Reference

Inheritance diagram for CFilterConfigurationNet:



Public Member Functions

- CFilterConfigurationNet (CMcsUsbNet[^] mcsusb)
- void SetFilterParameter (DacqGroupChannelEnumNet GroupID, uint32_t FilterNumber, CFilterCoefficientsNet[^] Coefficients, CFilterPropertyNet[^] FilterProp)
- void SetFilterParameter (DacqGroupChannelEnumNet GroupID, uint32_t FilterNumber, CFilterCoefficientsNet[^] CoefficientsSet1, CFilterCoefficientsNet[^] CoefficientsSet2, CFilterPropertyNet[^] FilterProp)
- void SetFilterParameterPermanent (DacqGroupChannelEnumNet GroupID, uint32_t FilterNumber)
- void EraseFilterParameterPermanent (DacqGroupChannelEnumNet GroupID, uint32_t FilterNumber)
- void SetHighpassFilterEnable (bool enable)
- bool GetHighpassFilterEnable ()
- void ResetHighpassFilter ()
- uint32_t GetFilterAttributes (DacqGroupChannelEnumNet GroupID, uint32_t FilterNumber, FilterAttributeEnumNet index)
- CFilterCoefficientsNet::s_FilterAttributesNet ^ GetFilterAttributes (DacqGroupChannelEnumNet GroupID, uint32 t FilterNumber)

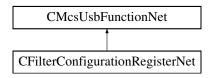
Additional Inherited Members

11.25.1 Constructor & Destructor Documentation

```
11.25.1.1 CFilterConfigurationNet() CFilterConfigurationNet (
             CMcsUsbNet^ mcsusb )
11.25.2 Member Function Documentation
11.25.2.1 EraseFilterParameterPermanent() void EraseFilterParameterPermanent (
             DacqGroupChannelEnumNet GroupID,
             uint32_t FilterNumber )
11.25.2.2 GetFilterAttributes() [1/2] CFilterCoefficientsNet::s_FilterAttributesNet ^ GetFilter←
Attributes (
             DacqGroupChannelEnumNet GroupID,
             uint32_t FilterNumber )
11.25.2.3 GetFilterAttributes() [2/2] uint32_t GetFilterAttributes (
             DacqGroupChannelEnumNet GroupID,
             uint32_t FilterNumber,
             FilterAttributeEnumNet index )
11.25.2.4 GetHighpassFilterEnable() bool GetHighpassFilterEnable ( )
11.25.2.5 ResetHighpassFilter() void ResetHighpassFilter ()
11.25.2.6 SetFilterParameter() [1/2] void SetFilterParameter (
             DacqGroupChannelEnumNet GroupID,
             uint32_t FilterNumber,
             CFilterCoefficientsNet<sup>∧</sup> Coefficients,
             CFilterPropertyNet^ FilterProp )
11.25.2.7 SetFilterParameter() [2/2] void SetFilterParameter (
             DacqGroupChannelEnumNet GroupID,
             uint32_t FilterNumber,
             CFilterCoefficientsNet<sup>∧</sup> CoefficientsSet1,
             CFilterCoefficientsNet<sup>^</sup> CoefficientsSet2,
             CFilterPropertyNet^ FilterProp )
```

11.26 CFilterConfigurationRegisterNet Class Reference

Inheritance diagram for CFilterConfigurationRegisterNet:



Public Member Functions

- CFilterConfigurationRegisterNet (CMcsUsbNet[^] mcsusb)
- void SetFilterParameter (uint32_t FilterCoefRegBase, CFilterCoefficientsNet[^] Coefficients, uint32_t Filter←
 InfoRegBase, CFilterPropertyNet[^] FilterProp)
- void SetFilterParameter (uint32_t FilterCoefSet1RegBase, CFilterCoefficientsNet[^] CoefficientsSet1, uint32_t FilterCoefSet2RegBase, CFilterCoefficientsNet[^] CoefficientsSet2, uint32_t FilterInfoRegBase, CFilterPropertyNet[^] FilterProp)
- void SetFilterParameterPermanent (uint32_t FilterCoefRegBase, uint32_t FilterCoefDmaReg, uint32_t FilterInfoRegBase, uint32_t EEPROMSize)
- void SetFilterParameterPermanent (uint32_t FilterCoefSet1RegBase, uint32_t FilterCoefSet1DmaReg, uint32_t FilterCoefSet2RegBase, uint32_t FilterCoefSet2DmaReg, uint32_t FilterInfoRegBase, uint32_t FilterInfoDmaReg, uint32_t EEPROMBase, uint32_t EEPROMSize)
- void EraseFilterParameterPermanent (uint32_t FilterCoefDmaReg, uint32_t FilterInfoDmaReg, uint32_t EEP-ROMBase, uint32_t EEPROMSize)
- void EraseFilterParameterPermanent (uint32_t FilterCoefSet1DmaReg, uint32_t FilterCoefSet2DmaReg, uint32_t FilterInfoDmaReg, uint32_t EEPROMBase, uint32_t EEPROMSize)

Additional Inherited Members

11.26.1 Constructor & Destructor Documentation

```
11.26.1.1 CFilterConfigurationRegisterNet() CFilterConfigurationRegisterNet ( CMcsUsbNet^ mcsusb )
```

11.26.2 Member Function Documentation

```
11.26.2.1 EraseFilterParameterPermanent() [1/2] void EraseFilterParameterPermanent (
             uint32_t FilterCoefDmaReg,
             uint32_t FilterInfoDmaReg,
             uint32_t EEPROMBase,
             uint32_t EEPROMSize )
11.26.2.2 EraseFilterParameterPermanent() [2/2] void EraseFilterParameterPermanent (
             uint32_t FilterCoefSet1DmaReg,
             uint32_t FilterCoefSet2DmaReg,
             uint32_t FilterInfoDmaReg,
             uint32_t EEPROMBase,
             uint32_t EEPROMSize )
11.26.2.3 SetFilterParameter() [1/2] void SetFilterParameter (
             uint32_t FilterCoefRegBase,
             CFilterCoefficientsNet<sup>^</sup> Coefficients,
             uint32_t FilterInfoRegBase,
             CFilterPropertyNet^ FilterProp )
11.26.2.4 SetFilterParameter() [2/2] void SetFilterParameter (
             uint32_t FilterCoefSet1RegBase,
             CFilterCoefficientsNet<sup>∧</sup> CoefficientsSet1,
             uint32_t FilterCoefSet2RegBase,
             CFilterCoefficientsNet^ CoefficientsSet2,
             uint32_t FilterInfoRegBase,
             CFilterPropertyNet^ FilterProp )
11.26.2.5 SetFilterParameterPermanent() [1/2] void SetFilterParameterPermanent (
             uint32_t FilterCoefRegBase,
             uint32_t FilterCoefDmaReg,
             uint32_t FilterInfoRegBase,
             uint32_t FilterInfoDmaReg,
             uint32_t EEPROMBase,
             uint32_t EEPROMSize )
11.26.2.6 SetFilterParameterPermanent() [2/2] void SetFilterParameterPermanent (
             uint32_t FilterCoefSet1RegBase,
             uint32_t FilterCoefSet1DmaReg,
             uint32_t FilterCoefSet2RegBase,
             uint32_t FilterCoefSet2DmaReg,
             uint32_t FilterInfoRegBase,
             uint32_t FilterInfoDmaReg,
             uint32_t EEPROMBase,
             uint32_t EEPROMSize )
```

11.27 CFilterPropertyNet Class Reference

Public Member Functions

- CFilterPropertyNet (uint32_t CornerFrequenzymHz, uint32_t Order, FilterBandEnumNet FilterBand, FilterFamilyEnumNet FilterTypeEnumNet FilterType, bool Active)
- ∼CFilterPropertyNet ()
- virtual System::String ^ ToString () override

Properties

```
• uint32_t CornerFrequencymHz [get]
```

- double CornerFrequency [get]
- uint32_t Order [get]
- FilterBandEnumNet FilterBand [get]
- FilterFamilyEnumNet FilterFamily [get]
- FilterTypeEnumNet FilterType [get]
- bool FilterActive [get]

11.27.1 Constructor & Destructor Documentation

```
FilterBandEnumNet FilterBand,
FilterFamilyEnumNet FilterFamily,
FilterTypeEnumNet FilterType,
bool Active )
```

11.27.1.2 ~CFilterPropertyNet() ~CFilterPropertyNet ()

11.27.2 Member Function Documentation

```
11.27.2.1 ToString() virtual System::String ^ ToString () [override], [virtual]
```

11.27.3 Property Documentation

11.27.3.1 CornerFrequency double CornerFrequency [get]

11.27.3.2 CornerFrequencymHz uint32_t CornerFrequencymHz [get]

11.27.3.3 FilterActive bool FilterActive [get]

11.27.3.4 FilterBand FilterBandEnumNet FilterBand [get]

11.27.3.5 FilterFamily FilterFamilyEnumNet FilterFamily [get]

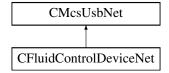
11.27.3.6 FilterType FilterTypeEnumNet FilterType [get]

11.27.3.7 Order uint32_t Order [get]

11.28 CFluidControlDeviceNet Class Reference

CFluidControlDeviceNet is the class to control MCS FluidControl (FCB and FCX) device.

Inheritance diagram for CFluidControlDeviceNet:



Public Member Functions

CFluidControlDeviceNet ()

Initialize a new instance of the CFluidControlDeviceNet class.

∼CFluidControlDeviceNet ()

Default destructor.

void SetValve (unsigned int value)

Open or Close valves.

void SetSingleValve (unsigned short valve, unsigned short onoff)

Opens or Closes a valve.

void SetDigout (unsigned int value)

Define the pattern on the Digital Output.

void SetPWM (unsigned int channel, unsigned int value)

Sets the duty cycle of the PWM output.

void CalibrateThermocouple (unsigned int channel)

Calibrates the ADC which is used for the Thermocouple. For the calibration, Short circuit the Thermocouple and use this function to correct a possible offset of the ADC which measures the thermocouple.

void SetThermocoupleNanovoltPerKelvin (unsigned int channel, unsigned int value)

Sets the proportinal constant for the Thermocouple.

unsigned int GetValve ()

Gets the state of the valves.

unsigned short GetSingleValve (unsigned short valve)

Gets the state of a valve.

• unsigned int GetDigout ()

Gets the state of the digital output.

· unsigned int GetPWM (unsigned int channel)

Gets the state of the PWM output.

• unsigned int GetAdc (unsigned int channel)

Reads an ADC Value.

• unsigned int GetDigin ()

Reads the digital input.

• int GetThermocoupleTemperature (unsigned int channel)

Reads the temperature from Thermocouple. The functions gives the temperature difference between both Thermocouple junctions. To get the absolute temperature, add the reference temperature.

• int GetReferenceTemperature (unsigned int channel)

Reads the reference temperature for the Thermocouple.

• unsigned int GetThermocoupleCalibration (unsigned int channel)

Gets the calibration constant for the Thermocouple ADC.

unsigned int GetThermocoupleNanovoltPerKelvin (unsigned int channel)

Reads the proportional constant for the Thermocouple.

Properties

CMcsBus_VoltageModeNet[^] McsBus_VoltageMode [get]

Additional Inherited Members

11.28.1 Detailed Description

CFluidControlDeviceNet is the class to control MCS FluidControl (FCB and FCX) device.

11.28.2 Constructor & Destructor Documentation

11.28.2.1 CFluidControlDeviceNet() CFluidControlDeviceNet ()

Initialize a new instance of the CFluidControlDeviceNet class.

11.28.2.2 ~CFluidControlDeviceNet() ~CFluidControlDeviceNet ()

Default destructor.

11.28.3 Member Function Documentation

```
11.28.3.1 CalibrateThermocouple() void CalibrateThermocouple ( unsigned int channel )
```

Calibrates the ADC which is used for the Thermocouple. For the calibration, Short circuit the Thermocouple and use this function to correct a possible offset of the ADC which measures the thermocouple.

Parameters

channel Thermocouple channel number.

11.28.3.2 GetAdc() unsigned int GetAdc (unsigned int channel)

Reads an ADC Value.

Parameters

channel	The ADC channel number to query.
---------	----------------------------------

Returns

The current ADC value.

11.28.3.3 GetDigin() unsigned int GetDigin ()

Reads the digital input.

Returns

The bit pattern of the state of the digital inputs.

11.28.3.4 GetDigout() unsigned int GetDigout ()

Gets the state of the digital output.

Returns

The current state of the digital outputs as a bit pattern.

```
11.28.3.5 GetPWM() unsigned int GetPWM ( unsigned int channel )
```

Gets the state of the PWM output.

Returns

The current state of the PWM outputs duty cycle in permille.

11.28.3.6 GetReferenceTemperature() int GetReferenceTemperature (unsigned int *channel*)

Reads the reference temperature for the Thermocouple.

Parameters

channel Thermocouple channel	el number.
------------------------------	------------

Returns

The temperature from the Thermocouple in 1/100 ℃.

11.28.3.7 GetSingleValve() unsigned short GetSingleValve (unsigned short *valve*)

Gets the state of a valve.

<i>valve</i> n	umber of valve
----------------	----------------

Returns

state of the valve

11.28.3.8 GetThermocoupleCalibration() unsigned int GetThermocoupleCalibration (unsigned int *channel*)

Gets the calibration constant for the Thermocouple ADC.

Parameters

channel	Thermocouple channel number.
---------	------------------------------

Returns

The calibration constant for the Thermocouple ADC.

11.28.3.9 GetThermocoupleNanovoltPerKelvin() unsigned int GetThermocoupleNanovoltPerKelvin (unsigned int *channel*)

Reads the proportional constant for the Thermocouple.

Parameters

channel	Thermocouple channel number.

Returns

The proportional constant in Nanovolt per Kelvin.

11.28.3.10 GetThermocoupleTemperature() int GetThermocoupleTemperature (unsigned int *channel*)

Reads the temperature from Thermocouple. The functions gives the temperature difference between both Thermocouple junctions. To get the absolute temperature, add the reference temperature.

channel Thermocouple channel numbe

Returns

The temperature difference between both Thermocouple junctions in 1/100 $^\circ\!\! C.$

11.28.3.11 GetValve() unsigned int GetValve ()

Gets the state of the valves.

Returns

The current state of the valves as a bit pattern.

```
11.28.3.12 SetDigout() void SetDigout (
unsigned int value)
```

Define the pattern on the Digital Output.

Parameters

value	bit pattern on the digital output.
-------	------------------------------------

```
11.28.3.13 SetPWM() void SetPWM (
unsigned int channel,
unsigned int value)
```

Sets the duty cycle of the PWM output.

channel	PWM channel number.
value	duty cycle of the PWM output in permille.

```
11.28.3.14 SetSingleValve() void SetSingleValve (
    unsigned short valve,
    unsigned short onoff)
```

Opens or Closes a valve.

valve	number of valve to be changed.
-------	--------------------------------

Parameters

onoff open or close the val	ve.
-----------------------------	-----

11.28.3.15 SetThermocoupleNanovoltPerKelvin() void SetThermocoupleNanovoltPerKelvin (unsigned int channel, unsigned int value)

Sets the proportinal constant for the Thermocouple.

Parameters

channel	Thermocouple channel number.
value	proportinal constant for the Thermocouple in Nanovolt per Kelvin.

11.28.3.16 SetValve() void SetValve (unsigned int value)

Open or Close valves.

Parameters

value	bit pattern of valves which should be open.

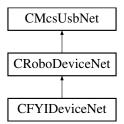
11.28.4 Property Documentation

11.28.4.1 McsBus_VoltageMode CMcsBus_VoltageModeNet^ McsBus_VoltageMode [get]

11.29 CFYIDeviceNet Class Reference

CFYIDeviceNet is the class to control the MCS FYI device

Inheritance diagram for CFYIDeviceNet:



Public Member Functions

• CFYIDeviceNet (void)

Properties

- CRobo_FYITemp_FunctionNet^ FYITemp [get]
- CRobo_FYIProgram_FunctionNet^ FYIProgram [get]
- CMcsBus_SensorNet^ Sensor [get]

Additional Inherited Members

11.29.1 Detailed Description

CFYIDeviceNet is the class to control the MCS FYI device

11.29.2 Constructor & Destructor Documentation

```
11.29.2.1 CFYIDeviceNet() CFYIDeviceNet ( void )
```

11.29.3 Property Documentation

11.29.3.1 FYIProgram CRobo_FYIProgram_FunctionNet^ FYIProgram [get]

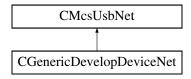
11.29.3.2 FYITemp CRobo_FYITemp_FunctionNet^ FYITemp [get]

11.29.3.3 Sensor CMcsBus_SensorNet^ Sensor [get]

11.30 CGenericDevelopDeviceNet Class Reference

CGenericDevelopDeviceNet is the class to use during development of a new device.

Inheritance diagram for CGenericDevelopDeviceNet:



Public Member Functions

- CGenericDevelopDeviceNet (void)
 - Initialize a new instance of the CGenericDevelopDeviceNet class.
- ~CGenericDevelopDeviceNet (void)
- void SetValue (uint16_t value, uint16_t index)

Sets .

Parameters

value	The value of the request.
-------	---------------------------

Parameters

index The index of the request.

- template<typename C > void SetBuffer (uint16_t value, uint16_t index, array< C > ^ buffer)
- void SetUByteBuffer (uint16_t value, uint16_t index, array< unsigned char >^ buffer)
 Sends an array of type unsigned char to the device.

Parameters

value	The value of the request.
-------	---------------------------

buffer The buffer to send	buffer
---------------------------	--------

• void SetByteBuffer (uint16_t value, uint16_t Index, array< char $>^{\land}$ buffer) Sends an array of type char to the device.

Parameters

value	The value of the request.
-------	---------------------------

Parameters

Index	The index of the request.
-------	---------------------------

Parameters

• void SetUShortBuffer (uint16_t value, uint16_t index, array< unsigned short >^ buffer) Sends an array of type unsigned short to the device.

Parameters

value The value of the request.

Parameters

index	The index of the request.

Parameters

buffer The buffer to send

• void SetShortBuffer (uint16_t value, uint16_t index, array < short $>^{\land}$ buffer) Sends an array of type short to the device.

value	The value of the request.
value	The value of the reguest.

index The index of the requ	ıest.
-----------------------------	-------

Parameters

buffer	The buffer to send.

void SetUIntBuffer (uint16_t value, uint16_t index, array< unsigned int >^ buffer)
 Sends an array of unsigned int to the device.

Parameters

value The value of the request.	_
---------------------------------	---

Parameters

Parameters

buffer	The buffer to send.

• void SetIntBuffer (uint16_t value, uint16_t index, array< int $>^{\land}$ buffer) Sends an array of type int to the device.

Parameters

value The value of the request.	
---------------------------------	--

Parameters

request.
ı

buffer	The buffer to send

- $\bullet \;\; template\!<\! typename\; C>$
 - array< C > $^{\land}$ GetBuffer (uint16_t value, uint16_t index, int size)
- array< unsigned char > ^ GetUByteBuffer (uint16_t value, uint16_t index, int size)

Gets an array of type unsigned char from the device.

Parameters

value	The value of the request.
-------	---------------------------

Parameters

index The index of the red

Parameters

size	The size of the array.
------	------------------------

Returns

The array of data from the device.

- array< char > ^ GetByteBuffer (uint16_t value, uint16_t index, int size)

Gets an array of type char from the device.

Parameters

value	The value of the request.

Parameters

index	The index of the request.

Parameters

size	The size of the array.
------	------------------------

Returns

The array of data from the device.

• array< unsigned short > $^{\wedge}$ GetUShortBuffer (uint16_t value, uint16_t index, int size)

Gets an array of type unsigned short from the device.

value	The value of the request.
-------	---------------------------

Parameters

Parameters

size	The size of the array.
------	------------------------

Returns

The array of data from the device.

- array< short > $^{\wedge}$ GetShortBuffer (uint16_t value, uint16_t index, int size)

Gets an array of type short from the device.

Parameters

value	The value of the request.
-------	---------------------------

Parameters

index	The index of the request.
-------	---------------------------

Parameters

size	The size of the array.
------	------------------------

Returns

The array of data from the device.

array< unsigned int > ^ GetUIntBuffer (uint16_t value, uint16_t index, int size)
 Gets an array of type unsigned int from the device.

value	The value of the request.

index	The index of the request.
-------	---------------------------

Parameters

size	The size of the array.
------	------------------------

Returns

The array of data from the device.

array< int > ^ GetIntBuffer (uint16_t value, uint16_t index, int size)

Gets an array of type int from the device.

Parameters

value	The value of the request.
-------	---------------------------

Parameters

	index	The index of the request.
--	-------	---------------------------

Parameters

size Th	e size of the array.
---------	----------------------

Returns

The array of data from the device.

- template<typename C > void VendorOutRequest (uint8_t request, uint16_t value, uint16_t index, array< C > ^ buffer)
- template<typename C > array< C > $^{\wedge}$ VendorInRequest (uint8_t request, uint16_t value, uint16_t index, int size)
- IntPtr OpenPipe (uint8_t endpointAddress)

Open a Pipe to an USB Endpoint.

Parameters

endpointAddress The Endpoint Num

Returns

A handle to the endpoint.

• void ClosePipe (IntPtr pipeHandle)

Close a Pipe to an USB Endpoint.

pipeHandle T	he endpoint handle.
--------------	---------------------

void ResetPipe (IntPtr pipeHandle)

Reset a Pipe to an USB Endpoint.

Parameters

Read data from an USB Endpoint.

Parameters

pipeHandle	The endpoint handle.
------------	----------------------

Parameters

Returns

An array of data read.

• template<typename C > void WritePipe (IntPtr pipeHandle, array< C $>^{\wedge}$ buffer)

Write data to an USB Endpoint.

Parameters

pipeHandle	The endpoint handle.

Parameters

buffer	An array of data to write.
--------	----------------------------

Additional Inherited Members

11.30.1 Detailed Description

CGenericDevelopDeviceNet is the class to use during development of a new device.

11.30.2 Constructor & Destructor Documentation

```
11.30.2.1 CGenericDevelopDeviceNet() CGenericDevelopDeviceNet (
void )
```

Initialize a new instance of the CGenericDevelopDeviceNet class.

```
11.30.2.2 ~CGenericDevelopDeviceNet() ~CGenericDevelopDeviceNet ( void )
```

11.30.3 Member Function Documentation

Close a Pipe to an USB Endpoint.

Parameters

```
pipeHandle The endpoint handle.
```

Gets an array of type char from the device.

value	The value of the request.
-------	---------------------------

Parameters

	index	The index of the request.
--	-------	---------------------------

Parameters

size The size of the a	array.
------------------------	--------

Returns

The array of data from the device.

Gets an array of type int from the device.

Parameters

value	The value of the request.
-------	---------------------------

index	The index of the request.

size	The size of the array.
------	------------------------

Returns

The array of data from the device.

Gets an array of type short from the device.

Parameters

value	The value of the request.
-------	---------------------------

Parameters

	index	The index of the request.
--	-------	---------------------------

Parameters

size	The size of the array.
------	------------------------

Returns

The array of data from the device.

Gets an array of type unsigned char from the device.

value	The value of the request.
-------	---------------------------

Parameters

	index	The index of the request.
--	-------	---------------------------

Parameters

Returns

The array of data from the device.

Gets an array of type unsigned int from the device.

Parameters

value	The value of the request.
value	The value of the request.

index	The index of the request.

size	The size of the array.
------	------------------------

Returns

The array of data from the device.

Gets an array of type unsigned short from the device.

Parameters

value	The value of the request.
-------	---------------------------

Parameters

	index	The index of the request.
--	-------	---------------------------

Parameters

size	The size of the array.
------	------------------------

Returns

The array of data from the device.

Open a Pipe to an USB Endpoint.

endpointAddress	The Endpoint Number.

Returns

A handle to the endpoint.

Read data from an USB Endpoint.

Parameters

pipeHandle	The endpoint handle.
------------	----------------------

Parameters

Returns

An array of data read.

Reset a Pipe to an USB Endpoint.

pipeHandle	The endpoint handle.

Sends an array of type char to the device.

Parameters

value The value of	the request.
--------------------	--------------

Parameters

Index The index of the request.

Parameters

buffer The buffer to send.

Sends an array of type int to the device.

value	The value of the request.

	index	The index of the request.
--	-------	---------------------------

Parameters

buffer The buffer to send.

Sends an array of type short to the device.

Parameters

value	The value of the request.
-------	---------------------------

Parameters

index	The index of the request.
-------	---------------------------

Parameters

11.30.3.16 **SetUByteBuffer()** void SetUByteBuffer (uint16_t value,

Sends an array of type unsigned char to the device.

Parameters

value The value of	f the request.
--------------------	----------------

Parameters

index The index of the request.

Parameters

```
buffer The buffer to send.
```

Sends an array of unsigned int to the device.

Parameters

value	The value of the request.
-------	---------------------------

index	The index of the request.

buffer The buffer to send.

Sends an array of type unsigned short to the device.

Parameters

value The value	of the request.
-----------------	-----------------

Parameters

Parameters

Sets .

Parameters

value The value of the request.

index The index of the reques	t.
-------------------------------	----

```
11.30.3.21 VendorOutRequest() void VendorOutRequest (
```

```
uint8_t request,
uint16_t value,
uint16_t index,
array< C >^ buffer )
```

```
11.30.3.22 WritePipe() void WritePipe (
IntPtr pipeHandle,
array< C >^ buffer )
```

Write data to an USB Endpoint.

Parameters

pipeHandle	The endpoint handle.
piporiariaro	THE CHAPOHIL HAHAIC.

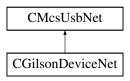
Parameters

buffer An array of data to write.

11.31 CGilsonDeviceNet Class Reference

CGilsonDeviceNet is the class to control a Gilson device.

Inheritance diagram for CGilsonDeviceNet:



Public Member Functions

CGilsonDeviceNet (void)

Initialize a new instance of the CGilsonDeviceNet class.

- ∼CGilsonDeviceNet (void)
- void ConnectSlave (byte ID)
- void SendImmediate (wchar_t command)
- String \(^\) SendImmediateGetResponse (wchar_t command)
- void SendBuffered (String[^] command)
- String ^ GetLastAnswer ()

Protected Attributes

• CGilsonDevice * m_pGilsonDevice

Additional Inherited Members

11.31.1 Detailed Description

CGilsonDeviceNet is the class to control a Gilson device.

11.31.2 Constructor & Destructor Documentation

```
11.31.2.1 CGilsonDeviceNet() CGilsonDeviceNet (
void )
```

Initialize a new instance of the CGilsonDeviceNet class.

```
11.31.2.2 ~CGilsonDeviceNet() ~CGilsonDeviceNet (
```

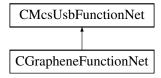
11.31.3 Member Function Documentation

```
11.31.3.1 ConnectSlave() void ConnectSlave (
             byte ID )
11.31.3.2 GetLastAnswer() String ^{\wedge} GetLastAnswer ( )
11.31.3.3 SendBuffered() void SendBuffered (
             String^{\wedge} command)
11.31.3.4 SendImmediate() void SendImmediate (
             wchar_t command )
11.31.3.5 SendImmediateGetResponse() String ^ SendImmediateGetResponse (
             wchar_t command )
11.31.4 Member Data Documentation
11.31.4.1 m_pGilsonDevice CGilsonDevice* m_pGilsonDevice [protected]
```

11.32 CGrapheneFunctionNet Class Reference

CGrapheneFunctionNet is the class to control Graphene device functions

Inheritance diagram for CGrapheneFunctionNet:



Public Member Functions

CGrapheneFunctionNet (CMcsUsbNet[^] mcsusb, CMcsUsbFunctionPointerContainer[^] pGraphene ← FunctionPointerContainer)

Initializes a new instance of the CGrapheneFunctionNet class.

- CGrapheneFunctionNet (CMcsUsbNet[^] mcsusb)
- virtual ∼CGrapheneFunctionNet ()
- !CGrapheneFunctionNet ()
- void GetVdVsDAC ([System::Runtime::InteropServices::Out]int16_t% Vd, [System::Runtime::Interop←
 Services::Out]int16 t% Vs)

Gets Vd and Vs

 void GetVdVsDAC (uint32_t Headstage, [System::Runtime::InteropServices::Out]int16_t% Vd, [System::← Runtime::InteropServices::Out]int16_t% Vs)

Gets Vd and Vs

void SetVdVsDAC (int16_t Vd, int16_t Vs)

Sets Vd and Vs

void SetVdVsDAC (uint32 t Headstage, int16 t Vd, int16 t Vs)

Sets Vd and VS

bool GetVoltageReached ()

Gets the reached voltage

bool GetVoltageReached (uint32_t Headstage)

Gets the reached voltage

int32_t GetVoltageRange ()

Gets the voltage range

int32_t GetVoltageRange (uint32_t Headstage)

Gets the voltage range

void SetVoltageRange (int32_t range)

Sets the voltage range

void SetVoltageRange (uint32 t Headstage, int32 t range)

Sets the voltage range

• int32_t GetVoltageResolution ()

Gets the voltage resolution

int32_t GetVoltageResolution (uint32_t Headstage)

Gets the voltage resolution

void SetVoltageResolution (int32_t resolution)

Sets the voltage resolution

void SetVoltageResolution (uint32_t Headstage, int32_t resolution)

Sets the voltage resolution

void GetDACOffset ([System::Runtime::InteropServices::Out]int16_t% offset_vd, [System::Runtime::
 — InteropServices::Out]int16_t% offset_vs)

Gets the DAC offset

 void GetDACOffset (uint32_t Headstage, [System::Runtime::InteropServices::Out]int16_t% offset_vd, [System::Runtime::InteropServices::Out]int16_t% offset_vs)

Gets the DAC offset

void SetDACOffset (int16_t offset_vd, int16_t offset_vs)

Sets the DAC offset

void SetDACOffset (uint32_t Headstage, int16_t offset_vd, int16_t offset_vs)

Set the DAC offset

void GetVdVs ([System::Runtime::InteropServices::Out]int32_t% Vd, [System::Runtime::InteropServices::
 — Out]int32_t% Vs)

Gets Vd and Vs

```
    void GetVdVs (uint32_t Headstage, [System::Runtime::InteropServices::Out]int32_t% Vd, [System::← Runtime::InteropServices::Out]int32_t% Vs)
        Gets Vd and Vs
    void SetVdVs (int32_t Vd, int32_t Vs)
        Sets Vd and Vs
    void SetVdVs (uint32_t Headstage, int32_t Vd, int32_t Vs)
```

Sets Vd and Vs
• void SetVgs (int32 t Vgs)

Sets Vgs

void SetVgs (uint32_t Headstage, int32_t Vgs)

Sets Vas

void SetVds (int32_t Vds)

Sets Vds

void SetVds (uint32_t Headstage, int32_t Vds)

Sets Vds

int32_t GetCur2VolResistance ()

Gets the resistance of the current to voltage converter

int32_t GetCur2VolResistance (uint32_t Headstage)

Gets the resistance of the current to voltage converter

Additional Inherited Members

11.32.1 Detailed Description

CGrapheneFunctionNet is the class to control Graphene device functions

11.32.2 Constructor & Destructor Documentation

```
11.32.2.1 CGrapheneFunctionNet() [1/2] CGrapheneFunctionNet (

CMcsUsbNet^ mcsusb,

CMcsUsbFunctionPointerContainer^ pGrapheneFunctionPointerContainer)
```

Initializes a new instance of the CGrapheneFunctionNet class.

```
11.32.2.2 CGrapheneFunctionNet() [2/2] CGrapheneFunctionNet ( CMcsUsbNet^ mcsusb )
```

```
\textbf{11.32.2.3} \quad \sim \textbf{CGrapheneFunctionNet()} \quad \text{virtual} \quad \sim \textbf{CGrapheneFunctionNet ()} \quad [\texttt{virtual}]
```

11.32.2.4 "!CGrapheneFunctionNet() !CGrapheneFunctionNet ()

11.32.3 Member Function Documentation

11.32.3.1 GetCur2VolResistance() [1/2] int32_t GetCur2VolResistance ()

Gets the resistance of the current to voltage converter

Returns

The resistance in Ohm

11.32.3.2 GetCur2VolResistance() [2/2] int32_t GetCur2VolResistance (uint32_t Headstage)

Gets the resistance of the current to voltage converter

Parameters

Headstage	The headstage to query.
-----------	-------------------------

Returns

The resistance in Ohm

Gets the DAC offset

offset_vd	Vd offset in DAC Units
offset_vs	Vs offset in DAC Units

```
11.32.3.4 GetDACOffset() [2/2] void GetDACOffset ( uint32_t Headstage,
```

```
[System::Runtime::InteropServices::Out] int16_t% offset_vd, [System::Runtime::InteropServices::Out] int16_t% offset_vs )
```

Gets the DAC offset

Parameters

Headstage	The headstage to query.
offset_vd	Vd offset in DAC Units
offset_vs	Vs offset in DAC Units

11.32.3.5 GetVdVs() [1/2] void GetVdVs (

```
[System::Runtime::InteropServices::Out] int32_t% Vd, [System::Runtime::InteropServices::Out] int32_t% Vs)
```

Gets Vd and Vs

Parameters

Vd	Vd in μV
Vs	Vs in μV

11.32.3.6 GetVdVs() [2/2] void GetVdVs (

```
uint32_t Headstage,
[System::Runtime::InteropServices::Out] int32_t% Vd,
[System::Runtime::InteropServices::Out] int32_t% Vs )
```

Gets Vd and Vs

Parameters

Headstage	The headstage to query.
Vd	Vd in μV
Vs	Vs in μV

11.32.3.7 GetVdVsDAC() [1/2] void GetVdVsDAC (

```
[System::Runtime::InteropServices::Out] int16_t% Vd, [System::Runtime::InteropServices::Out] int16_t% Vs)
```

Gets Vd and Vs

Vd	Vd in DAC Units
Vs	Vs in DAC Units

11.32.3.8 GetVdVsDAC() [2/2] void GetVdVsDAC (

```
uint32_t Headstage,
[System::Runtime::InteropServices::Out] int16_t% Vd,
[System::Runtime::InteropServices::Out] int16_t% Vs )
```

Gets Vd and Vs

Parameters

Headstage	The headstage to query.
Vd	Vd in DAC Units
Vs	Vs in DAC Units

11.32.3.9 GetVoltageRange() [1/2] int32_t GetVoltageRange ()

Gets the voltage range

Returns

The voltage range in mV

Gets the voltage range

Parameters

Headstage	The headstage to query.

Returns

The voltage range in mV

11.32.3.11 GetVoltageReached() [1/2] bool GetVoltageReached ()

Gets the reached voltage

Returns

the reached voltage

11.32.3.12 GetVoltageReached() [2/2] bool GetVoltageReached (uint32_t Headstage)

Gets the reached voltage

Parameters

Returns

The reached voltage

11.32.3.13 GetVoltageResolution() [1/2] int32_t GetVoltageResolution ()

Gets the voltage resolution

Returns

The voltage resolution in $\mu V/\text{digit}$

11.32.3.14 GetVoltageResolution() [2/2] int32_t GetVoltageResolution (uint32_t Headstage)

Gets the voltage resolution

Parameters

Headstage
Headstage

Returns

The voltage resolution in $\mu V/\text{digit}$

Sets the DAC offset

offset_vd	Vd offset in DAC Units
offset_vs	Vs offset in DAC Units

Set the DAC offset

Parameters

Headstage	The headstage to query.
offset_vd	Vd offset in DAC Units
offset_vs	Vs offset in DAC Units

```
11.32.3.17 SetVds() [1/2] void SetVds ( int32_t Vds )
```

Sets Vds

Parameters

Sets Vds

Parameters

Headstage	The headstage to query.
Vds	Vds in μV

Sets Vd and Vs

Vd	Vd in μV
Vs	Vs in μV

Sets Vd and Vs

Parameters

Headstage	The headstage to query.
Vd	Vd in μV
Vs	Vs in μV

Sets Vd and Vs

Parameters

Vd	Vd in DAC Units
Vs	Vs in DAC Units

Sets Vd and VS

Headstage	The headstage to query.
Vd	Vd in DAC Units
Vs	Vs in DAC Units

```
11.32.3.23 SetVgs() [1/2] void SetVgs ( int32\_t \ \textit{Vgs} \ )
```

Sets Vgs

Parameters

Vgs	Vgs in μV
-----	-----------

Sets Vgs

Parameters

Headstage	The headstage to query.
Vgs	Vgs in μV

Sets the voltage range

Parameters

range	The voltage range in mV

11.32.3.26 SetVoltageRange() [2/2] void SetVoltageRange (uint32_t Headstage, int32_t range)

Sets the voltage range

Headstage	The headstage to query.
range	The voltage range in mV

Sets the voltage resolution

Parameters

n The vo	age resolution in	in μV/digit
----------	-------------------	-------------

11.32.3.28 SetVoltageResolution() [2/2] void SetVoltageResolution (uint32_t Headstage, int32_t resolution)

Sets the voltage resolution

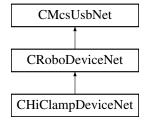
Parameters

Headstage	The headstage to query.
resolution	The voltage resolution in μV/digit

11.33 CHiClampDeviceNet Class Reference

CHiClampDeviceNet is the to control the MCS HiClamp device

Inheritance diagram for CHiClampDeviceNet:



Public Member Functions

• CHiClampDeviceNet (void)

Properties

• CRoboDacqNet^ RoboDacq [get]

Additional Inherited Members

11.33.1 Detailed Description

CHiClampDeviceNet is the to control the MCS HiClamp device

11.33.2 Constructor & Destructor Documentation

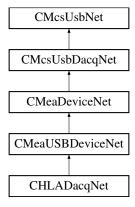
```
11.33.2.1 CHiClampDeviceNet() CHiClampDeviceNet ( void )
```

11.33.3 Property Documentation

```
11.33.3.1 RoboDacq CRoboDacqNet^ RoboDacq [get]
```

11.34 CHLADacqNet Class Reference

Inheritance diagram for CHLADacqNet:



Public Member Functions

CHLADacqNet (void)

Additional Inherited Members

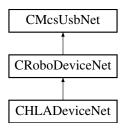
11.34.1 Constructor & Destructor Documentation

```
11.34.1.1 CHLADacqNet() CHLADacqNet (
void )
```

11.35 CHLADeviceNet Class Reference

CHLADeviceNet is the to control the MCS HLA device

Inheritance diagram for CHLADeviceNet:



Public Member Functions

• CHLADeviceNet (void)

Properties

- CHLADacqNet^ HLADacq [get]
- CSerialPortNet^ SerialPort [get]

Additional Inherited Members

11.35.1 Detailed Description

CHLADeviceNet is the to control the MCS HLA device

11.35.2 Constructor & Destructor Documentation

```
11.35.2.1 CHLADeviceNet() CHLADeviceNet (
void )
```

11.35.3 Property Documentation

11.35.3.1 HLADacq CHLADacqNet^ HLADacq [get]

11.35.3.2 SerialPort CSerialPortNet^ SerialPort [get]

11.36 CMcsUsbDacqNet::CHWInfo Class Reference

Class to provide hardware information about the device.

Classes

class CVoltageRangeInfoNet

Public Member Functions

- CHWInfo (CMcsUsbDacqNet[^] device)

Get the number of analog channels the device supports.

Get the number of digital channels the device supports.

virtual bool IsDigitalChannelDedicated ()

Query if the digital channel replaces an analog channel when enabled (e.g. on MC_Card) or adds a channel link on USB devices.

- virtual uint32_t GetAvailableSampleRates ([System::Runtime::InteropServices::Out]System::Collections::←
 Generic::List< int32 t >^% sampleRates)
- virtual System::Collections::Generic::List< int32_t > ^ GetAvailableVoltageRangesInMicroVolt (int milliGain)
 Gets a List of voltage ranges the device supports.
- virtual System::Collections::Generic::List< CVoltageRangeInfoNet[^]> [^] GetAvailableVoltageRangesInMicroVoltAndStringsInM (int milliGain)

Gets a List of voltage ranges the device supports.

11.36.1 Detailed Description

Class to provide hardware information about the device.

11.36.2 Constructor & Destructor Documentation

```
11.36.2.1 CHWInfo() CHWInfo (

CMcsUsbDacqNet^ device)
```

11.36.3 Member Function Documentation

Gets a List of voltage ranges the device supports.

The List is scaled by the gain factor given as argument to this function. Use "1000" as scale factor for backwards compatibility. To get a list of voltage ranges for the headstage, obtain the gain of the headstage with the Get Gain() call and use the result in the milliGain parameter. To get a list of voltage ranges for the analog inputs of the interfaceboard, obtain the gain of the analog inputs with the GetAnalogGain() call and use the result in the milliGain parameter.

Parameters

Returns

List of voltage ranges in µV.

Gets a List of voltage ranges the device supports.

The List is scaled by the gain factor given as argument to this function. Use "1000" as scale factor for backwards compatibility. Each list entry contains the voltage range as an integer and as a string. To get a list of voltage ranges for the headstage, obtain the gain of the headstage with the GetGain() call and use the result in the milliGain parameter. To get a list of voltage ranges for the analog inputs of the interfaceboard, obtain the gain of the analog inputs with the GetAnalogGain() call and use the result in the milliGain parameter.

Parameters

mili	liGain	The gain factor (in milliGain) used to scale the list of voltage ranges.	
------	--------	--	--

Returns

List of voltage ranges in µV.

Get the number of analog channels the device supports.

numberOfChannels Number of analog channels the device supports.	umberOfChannels	Number of analog channels the device supports.
---	-----------------	--

Returns

Error Status. 0 on success.

11.36.3.5 **GetNumberOfHWDigitalChannels()** virtual uint32_t GetNumberOfHWDigitalChannels (
[System::Runtime::InteropServices::Out] int% numberOfChannels) [virtual]

Get the number of digital channels the device supports.

Parameters

	numberOfChannels	Number of digital channels the device supports.	1
--	------------------	---	---

Returns

Error Status. 0 on success.

11.36.3.6 IsDigitalChannelDedicated() virtual bool IsDigitalChannelDedicated () [virtual]

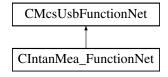
Query if the digital channel replaces an analog channel when enabled (e.g. on MC_Card) or adds a channel link on USB devices.

Returns

false when the digital channel replaces an analog channel when enabled, true when the digital channels is appended to the analog channels when enabled.

11.37 CIntanMea_FunctionNet Class Reference

Inheritance diagram for CIntanMea_FunctionNet:



Public Member Functions

- CIntanMea_FunctionNet (CMcsUsbNet[^] mcsusb, CMcsUsbFunctionPointerContainer[^] intalMea_Function
 —
 PointerContainer)
- CIntanMea_FunctionNet (CMcsUsbNet[^] mcsusb)
- int GetUpperFrequencyByIndex (unsigned short index)
- int GetLowerFrequencyByIndex (unsigned short index)
- int64_t GetDSPHighPassByIndex (unsigned short index)
- int GetIntanRegister (unsigned short chip, unsigned short registernumber)
- int GetImpedanceResult (unsigned short channel)
- void SetBandwidthByIndex (int upper_index, int lower_index)
- void SetDSPHighPassByIndex (int index)
- void AmplifierSettle ()
- void SetIntanRegister (unsigned short register number, int value)
- void SetDiagnosticMode (unsigned char onoff)
- void BeginImpedanceCheck (array< int >^ config_values)

Additional Inherited Members

11.37.1 Constructor & Destructor Documentation

```
11.37.1.2 CIntanMea_FunctionNet() [2/2] CIntanMea_FunctionNet (
CMcsUsbNet^ mcsusb)
```

11.37.2 Member Function Documentation

```
11.37.2.1 AmplifierSettle() void AmplifierSettle ( )
```

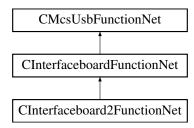
```
11.37.2.2 BeginImpedanceCheck() void BeginImpedanceCheck ( array < int >^{\land} config\_values )
```

```
11.37.2.3 GetDSPHighPassByIndex() int64_t GetDSPHighPassByIndex (
             unsigned short index)
11.37.2.4 GetImpedanceResult() int GetImpedanceResult (
             {\tt unsigned \ short \ } {\it channel \ })
11.37.2.5 GetIntanRegister() int GetIntanRegister (
             unsigned short chip,
             unsigned short registernumber )
11.37.2.6 GetLowerFrequencyByIndex() int GetLowerFrequencyByIndex (
             unsigned short index)
11.37.2.7 GetUpperFrequencyByIndex() int GetUpperFrequencyByIndex (
             unsigned short index)
11.37.2.8 SetBandwidthByIndex() void SetBandwidthByIndex (
             int upper_index,
             int lower_index )
11.37.2.9 SetDiagnosticMode() void SetDiagnosticMode (
             unsigned char onoff )
11.37.2.10 SetDSPHighPassByIndex() void SetDSPHighPassByIndex (
             int index )
11.37.2.11 SetIntanRegister() void SetIntanRegister (
             unsigned short register_number,
             int value )
```

11.38 CInterfaceboard2FunctionNet Class Reference

CInterfaceboard2FunctionNet is the class to control the Interfaceboard

Inheritance diagram for CInterfaceboard2FunctionNet:



Public Member Functions

 CInterfaceboard2FunctionNet (CMcsUsbNet[^] mcsusb, CMcsUsbFunctionPointerContainer[^] pInterfaceboard2← FunctionPointerContainer)

Initializes a new instance of the CInterfaceboard2FunctionNet class.

- CInterfaceboard2FunctionNet (CMcsUsbNet[^] mcsusb)
- virtual ~CInterfaceboard2FunctionNet ()
- !CInterfaceboard2FunctionNet ()
- void SetloVoltage (IoVoltageEnumNet ioVoltage)

Sets the I/O Voltage level for the IFB2 digital and AUX ports, default is 3.3V.

IoVoltageEnumNet GetIoVoltage ()

Gets the I/O Voltage level for the IFB2 digital and AUX ports, default is 3.3V.

Additional Inherited Members

11.38.1 Detailed Description

CInterfaceboard2FunctionNet is the class to control the Interfaceboard

11.38.2 Constructor & Destructor Documentation

Initializes a new instance of the CInterfaceboard2FunctionNet class.

```
11.38.2.2 CInterfaceboard2FunctionNet() [2/2] CInterfaceboard2FunctionNet ( CMcsUsbNet^ mcsusb )
```

11.38.2.3 ~CInterfaceboard2FunctionNet() virtual ~CInterfaceboard2FunctionNet () [virtual]

11.38.2.4 "!CInterfaceboard2FunctionNet() !CInterfaceboard2FunctionNet ()

11.38.3 Member Function Documentation

```
11.38.3.1 GetloVoltage() IoVoltageEnumNet GetIoVoltage ( )
```

Gets the I/O Voltage level for the IFB2 digital and AUX ports, default is 3.3V.

Returns

Enum for the IO Voltage (3.3V or 5.0V).

Sets the I/O Voltage level for the IFB2 digital and AUX ports, default is 3.3V.

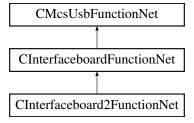
Parameters

ioVoltage Enum for the I/O Voltage (3.3V or 5.0V).

11.39 CInterfaceboardFunctionNet Class Reference

CInterfaceboardFunctionNet is the class to control the Interfaceboard

Inheritance diagram for CInterfaceboardFunctionNet:



Public Member Functions

CInterfaceboardFunctionNet (CMcsUsbNet[^] mcsusb, CMcsUsbFunctionPointerContainer[^] pInterfaceboard←
 FunctionPointerContainer)

Initializes a new instance of the CInterfaceboardFunctionNet class.

- CInterfaceboardFunctionNet (CMcsUsbNet[^] mcsusb)
- virtual ~CInterfaceboardFunctionNet ()
- !CInterfaceboardFunctionNet ()
- void SetCardinalDacqSamplerate (uint32_t samplerate)

Sets the fundamental/cardinal data aquisition samplerate of the Interfaceboard, default is 50 kHz

uint32_t GetCardinalDacqSamplerate ()

Gets the fundamental/cardinal data aquisition samplerate of the Interfaceboard, default is 50 kHz

void SetCardinalStgOutputrate (uint32_t outputrate)

Sets the fundamental/cardinal STG output rate of the Interfaceboard, default is 50 kHz

• uint32_t GetCardinalStgOutputrate ()

Gets the fundamental/cardinal STG output rate of the Interfaceboard, default is 50 kHz

Additional Inherited Members

11.39.1 Detailed Description

CInterfaceboardFunctionNet is the class to control the Interfaceboard

11.39.2 Constructor & Destructor Documentation

```
11.39.2.1 CInterfaceboardFunctionNet() [1/2] CInterfaceboardFunctionNet (

CMcsUsbNet^ mcsusb,

CMcsUsbFunctionPointerContainer^ pInterfaceboardFunctionPointerContainer)
```

Initializes a new instance of the CInterfaceboardFunctionNet class.

```
11.39.2.2 CInterfaceboardFunctionNet() [2/2] CInterfaceboardFunctionNet (
CMcsUsbNet^ mcsusb )
```

```
11.39.2.3 ~CInterfaceboardFunctionNet() virtual ~CInterfaceboardFunctionNet () [virtual]
```

```
11.39.2.4 "!CInterfaceboardFunctionNet() !CInterfaceboardFunctionNet ( )
```

11.39.3 Member Function Documentation

11.39.3.1 GetCardinalDacqSamplerate() uint32_t GetCardinalDacqSamplerate ()

Gets the fundamental/cardinal data aquisition samplerate of the Interfaceboard, default is 50 kHz

Returns

The samplerate in Hz.

11.39.3.2 GetCardinalStgOutputrate() uint32_t GetCardinalStgOutputrate ()

Gets the fundamental/cardinal STG output rate of the Interfaceboard, default is 50 kHz

Returns

The output rate in Hz.

11.39.3.3 SetCardinalDacqSamplerate() void SetCardinalDacqSamplerate (uint32_t samplerate)

Sets the fundamental/cardinal data aquisition samplerate of the Interfaceboard, default is 50 kHz

Parameters

samplerate The samplerate in Hz.

```
11.39.3.4 SetCardinalStgOutputrate() void SetCardinalStgOutputrate ( uint32_t outputrate )
```

Sets the fundamental/cardinal STG output rate of the Interfaceboard, default is 50 kHz

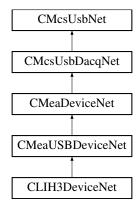
Parameters

outputrate The output rate in Hz.

11.40 CLIH3DeviceNet Class Reference

CLIH3DeviceNet is the class to access the HEKA LIH3 device.

Inheritance diagram for CLIH3DeviceNet:



Public Member Functions

· CLIH3DeviceNet ()

Initializes a new instance of the CLIH3DeviceNet class.

- virtual ∼CLIH3DeviceNet ()
- !CLIH3DeviceNet ()
- void DummyCommand (uint32_t dummyParameter)

Dummy command to show how to use the DLL.

void SetEEpromPage (uint32_t EEpromStartAddress, array< int8_t >^ EEpromData, LIH30_EPC10_Bus_EnumNet epc10bus)

Writes into EEprom on the EPC10 EEPROM

array< int8_t > ^ GetEEpromPage (uint32_t EEpromStartAddress, int EEpromData_Length, LIH30_EPC10_Bus_EnumNet epc10bus)

Reads the requested amount of EEprom byte from the EPC10 EEPROM

void SetSampleInterval (uint32_t SampleInterval)

Sets the Sample Interval for the DACQ and Stimulation

uint32_t GetSampleInterval ()

Gets the Sample Interval for the DACQ and Stimulation

• void SetAdcOffset (LIH30_ADC_Channel_EnumNet AdcChannel, int32_t Offset)

Sets the ADC offset of the DACQ for a single channel

int32_t GetAdcOffset (LIH30_ADC_Channel_EnumNet AdcChannel)

Gets the ADC offset of the DACQ for a single channel

• void SetAdcOffsetPermanent (LIH30_ADC_Channel_EnumNet AdcChannel)

Writes the ADC offset of the DACQ for a single channel to permanent EEProm memory

void ErasePermanentAdcOffset (LIH30_ADC_Channel_EnumNet AdcChannel)

Delets the ADC offset of the DACQ for a single channel in permanent EEProm memory

uint32_t ReadClipping (LIH30_EPC10_Bus_EnumNet epc10bus)

Gets the clipping information

void SetDigOutState (uint16_t DigOutState)

Writes to the LIH30 digital output

• uint16_t GetDigInState ()

Reads from the LIH30 digital input

• void SendCommand (LIH30_EPC10_Bus_EnumNet epc10bus, uint16_t Command)

Send command to the EPC10

• uint16_t GetDacqRunStatus ()

Gets the data acquisition running status

void SetDacUseIdleValue (uint32_t DacChannel, bool UseIdle)

Sets if the DAC Idle value is used after stimulation

bool GetDacUseIdleValue (uint32_t DacChannel)

Gets if the DAC Idle value is used after stimulation

void SetDacIdleValue (uint32_t DacChannel, int32_t IdleValue)

Sets the DAC Idle value

int32_t GetDacIdleValue (uint32_t DacChannel)

Gets the DAC Idle value

• void EnableUserTrigger (bool enable)

Enables the User Trigger

• bool IsUserTriggerEnabled ()

Is the User Trigger enabled

void SetDacOffset (LIH30_DAC_Channel_EnumNet DacChannel, int32_t Offset)

Sets the offset of a DAC channel.

• int32_t GetDacOffset (LIH30_DAC_Channel_EnumNet DacChannel)

Gets the offset of a DAC channel.

void SetDacOffsetPermanent (LIH30_DAC_Channel_EnumNet DacChannel)

Writes the DAC offset of the STG for a single channel to permanent EEProm memory

void ErasePermanentDacOffset (LIH30_DAC_Channel_EnumNet DacChannel)

Delets the DAC offset of the STG for a single channel in permanent EEProm memory

void SetAudioOutDacParameter (uint32 t Frequency, uint32 t Amplification)

Sets the parameter of the audio DAC output.

• void GetAudioOutDacParameter ([System::Runtime::InteropServices::Out]uint32_t% Frequency, [System::

Runtime::InteropServices::Out]uint32_t% Amplification)

Gets the parameter of the audio DAC output.

String ^ ReadUARTData ()

Reads the config string from the device.

void WriteUARTData (String^{\(\Lambda\)} commandString)

Write the command string to the device.

Properties

CStimulusFunctionNet[^] StimulusFunction [get]

Additional Inherited Members

11.40.1 Detailed Description

CLIH3DeviceNet is the class to access the HEKA LIH3 device.

11.40.2 Constructor & Destructor Documentation

11.40.2.1 CLIH3DeviceNet() CLIH3DeviceNet ()

Initializes a new instance of the CLIH3DeviceNet class.

```
11.40.2.2 ~CLIH3DeviceNet() virtual ~CLIH3DeviceNet () [virtual]
```

```
11.40.2.3 "!CLIH3DeviceNet() !CLIH3DeviceNet ()
```

11.40.3 Member Function Documentation

```
11.40.3.1 DummyCommand() void DummyCommand ( uint32_t dummyParameter )
```

Dummy command to show how to use the DLL.

Parameters

dummyParameter | parameter to send to the device

```
11.40.3.2 EnableUserTrigger() void EnableUserTrigger ( bool enable )
```

Enables the User Trigger

Parameters

enable Enable

Delets the ADC offset of the DACQ for a single channel in permanent EEProm memory

Parameters

```
AdcChannel The ADC channel
```

Delets the DAC offset of the STG for a single channel in permanent EEProm memory

DacChannel 1	The DAC channel
--------------	-----------------

Gets the ADC offset of the DACQ for a single channel

Parameters

г		
	AdcChannel	The ADC channel

Returns

The offset for the given channel number

Gets the parameter of the audio DAC output.

Parameters

Frequency	Frequency(1 - 25000 Hz)
Amplification	Amplification(0 - 0xFFFF)

Gets the DAC Idle value

Parameters

DacChannel	The DAC channel

Returns

The idle value

Gets the offset of a DAC channel.

Parameters

```
DacChannel The DAC channel
```

Returns

The offset for the given channel number

11.40.3.9 GetDacqRunStatus() uint16_t GetDacqRunStatus ()

Gets the data acquisition running status

Returns

The status (1: running / 0: stopped)

```
11.40.3.10 GetDacUseldleValue() bool GetDacUseIdleValue ( uint32_t DacChannel )
```

Gets if the DAC Idle value is used after stimulation

Parameters

```
DacChannel The DAC channel
```

Returns

Use idle value

```
11.40.3.11 GetDigInState() uint16_t GetDigInState ( )
```

Reads from the LIH30 digital input

Returns

The bit mask defining the digital input state

Reads the requested amount of EEprom byte from the EPC10 EEPROM

Parameters

EEpromStartAddress	start address of memory area to read from
EEpromData_Length	The maximal length of EEpromData.
epc10bus	The EPC10 bus

Returns

pointer to internal memory for the requested amount of data

11.40.3.13 GetSampleInterval() uint32_t GetSampleInterval ()

Gets the Sample Interval for the DACQ and Stimulation

Returns

Sample Interval configured on the device

11.40.3.14 IsUserTriggerEnabled() bool IsUserTriggerEnabled ()

Is the User Trigger enabled

Returns

Enabled

Gets the clipping information

ı	ana10hus	The EPC10 bus
ı	ebt i ubus	I IIIE EF C I U DUS

Returns

The clipping value

11.40.3.16 ReadUARTData() String ^ ReadUARTData ()

Reads the config string from the device.

Returns

The config string.

```
11.40.3.17 SendCommand() void SendCommand (
    LIH30_EPC10_Bus_EnumNet epc10bus,
    uint16_t Command )
```

Send command to the EPC10

Parameters

epc10bus	The EPC10 bus
Command	The command

Sets the ADC offset of the DACQ for a single channel

Parameters

AdcChannel	The ADC channel
Offset	The offset for the given channel number

Writes the ADC offset of the DACQ for a single channel to permanent EEProm memory

Sets the parameter of the audio DAC output.

Parameters

Frequency	Frequency(1 - 25000 Hz)
Amplification	Amplification(0 - 0xFFFF)

Sets the DAC Idle value

Parameters

DacChannel	The DAC channel
IdleValue	The idle value

Sets the offset of a DAC channel.

DacChannel	The DAC channel
Offset	The offset for the given channel number

Writes the DAC offset of the STG for a single channel to permanent EEProm memory		

DacChannel The D

Sets if the DAC Idle value is used after stimulation

Parameters

DacChannel	The DAC channel
Useldle	Use idle value

```
11.40.3.25 SetDigOutState() void SetDigOutState ( uint16_t DigOutState )
```

Writes to the LIH30 digital output

Parameters

DigOut	State	The bit mask defining the digital output state
--------	-------	--

Writes into EEprom on the EPC10 EEPROM

EEpromStartAddress	start address of memory area to write to	
EEpromData	pointer to internal memory for the supported amount of data	
epc10bus	The EPC10 bus	

```
11.40.3.27 SetSampleInterval() void SetSampleInterval ( uint32_t SampleInterval )
```

Sets the Sample Interval for the DACQ and S	Stimulation	
Sets the Sample interval for the DAGG and C	Suridiation	

11.40.3.28 WriteUARTData() void WriteUARTData (String^ commandString)

Write the command string to the device.

Parameters

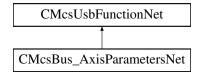
commandString	The config string.
---------------	--------------------

11.40.4 Property Documentation

11.40.4.1 StimulusFunction CStimulusFunctionNet^ StimulusFunction [get]

11.41 CMcsBus_AxisParametersNet Class Reference

Inheritance diagram for CMcsBus_AxisParametersNet:



Public Member Functions

- CMcsBus_AxisParametersNet (CMcsUsbNet[^] device)
- ~CMcsBus_AxisParametersNet (void)
- void SetAxisParametersEeprom (unsigned char busnumber, unsigned char busaddress, unsigned char axis, unsigned short index, unsigned int parameter)
- void SetAxisParametersEeprom (unsigned char busnumber, unsigned char busaddress, unsigned char axis, unsigned short index, int parameter)
- unsigned int GetAxisParametersUnsignedEeprom (unsigned char busnumber, unsigned char busaddress, unsigned char axis, unsigned short index)
- int GetAxisParametersSignedEeprom (unsigned char busnumber, unsigned char busaddress, unsigned char axis, unsigned short index)

Additional Inherited Members

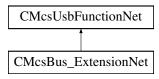
11.41.1 Constructor & Destructor Documentation

```
11.41.1.1 CMcsBus AxisParametersNet() CMcsBus_AxisParametersNet (
             CMcsUsbNet^ device )
11.41.1.2 ~ CMcsBus AxisParametersNet() ~ CMcsBus_AxisParametersNet (
             void )
11.41.2 Member Function Documentation
11.41.2.1 GetAxisParametersSignedEeprom() int GetAxisParametersSignedEeprom (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             unsigned short index )
11.41.2.2 GetAxisParametersUnsignedEeprom() unsigned int GetAxisParametersUnsignedEeprom (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             unsigned short index)
11.41.2.3 SetAxisParametersEeprom() [1/2] void SetAxisParametersEeprom (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             unsigned short index,
             int parameter )
11.41.2.4 SetAxisParametersEeprom() [2/2] void SetAxisParametersEeprom (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
```

unsigned short index,
unsigned int parameter)

11.42 CMcsBus_ExtensionNet Class Reference

Inheritance diagram for CMcsBus_ExtensionNet:



Public Member Functions

- CMcsBus_ExtensionNet (CMcsUsbNet[^] device)
- ∼CMcsBus ExtensionNet (void)
- void SetLEDSwitch (unsigned char busnumber, unsigned char busaddress, unsigned short LEDSwitch)
- unsigned short GetLEDSwitch (unsigned char busnumber, unsigned char busaddress)

Additional Inherited Members

11.42.1 Constructor & Destructor Documentation

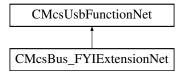
11.42.2 Member Function Documentation

```
11.42.2.1 GetLEDSwitch() unsigned short GetLEDSwitch (
unsigned char busnumber,
unsigned char busaddress)
```

```
11.42.2.2 SetLEDSwitch() void SetLEDSwitch (
    unsigned char busnumber,
    unsigned char busaddress,
    unsigned short LEDSwitch )
```

11.43 CMcsBus_FYIExtensionNet Class Reference

Inheritance diagram for CMcsBus_FYIExtensionNet:



Public Member Functions

- CMcsBus_FYIExtensionNet (CMcsUsbNet[^] device)
- ~CMcsBus FYIExtensionNet (void)
- · void SetValves (unsigned char busnumber, unsigned char busaddress, unsigned int states)
- unsigned int GetValves (unsigned char busnumber, unsigned char busaddress)
- · void SetDIO (unsigned char busnumber, unsigned char busaddress, unsigned short io)
- unsigned short GetDIO (unsigned char busnumber, unsigned char busaddress)
- void SetSingleHeater (unsigned char busnumber, unsigned char busaddress, short index, unsigned short power)
- unsigned short GetSingleHeater (unsigned char busnumber, unsigned char busaddress, short index)

Additional Inherited Members

11.43.1 Constructor & Destructor Documentation

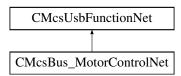
```
11.43.2.1 GetDIO() unsigned short GetDIO (
unsigned char busnumber,
unsigned char busaddress)
```

11.43.2 Member Function Documentation

```
11.43.2.2 GetSingleHeater() unsigned short GetSingleHeater (
             unsigned char busnumber,
             unsigned char busaddress,
             short\ index )
11.43.2.3 GetValves() unsigned int GetValves (
             unsigned char busnumber,
             unsigned char busaddress )
11.43.2.4 SetDIO() void SetDIO (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned short io )
11.43.2.5 SetSingleHeater() void SetSingleHeater (
             unsigned char busnumber,
             unsigned char busaddress,
             short index,
             unsigned short power )
11.43.2.6 SetValves() void SetValves (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned int states )
```

11.44 CMcsBus_MotorControlNet Class Reference

Inheritance diagram for CMcsBus_MotorControlNet:



Public Member Functions

- CMcsBus_MotorControlNet (CMcsUsbNet[^] device)
- ∼CMcsBus MotorControlNet (void)
- void SetMCScalingFactorEeprom (unsigned char busnumber, unsigned char busaddress, unsigned char axis, int factor)
- int GetMCScalingFactorEeprom (unsigned char busnumber, unsigned char busaddress, unsigned char axis)
- void SetMCScalingFactor (unsigned char busnumber, unsigned char busaddress, unsigned char axis, int factor)
- int GetMCScalingFactor (unsigned char busnumber, unsigned char busaddress, unsigned char axis)
- void SetMCMaxSpeedEeprom (unsigned char busnumber, unsigned char busaddress, unsigned char axis, unsigned short speed)
- unsigned short GetMCMaxSpeedEeprom (unsigned char busnumber, unsigned char busaddress, unsigned char axis)
- void SetMCMaxSpeed (unsigned char busnumber, unsigned char busaddress, unsigned char axis, unsigned short speed)
- unsigned short GetMCMaxSpeed (unsigned char busnumber, unsigned char busaddress, unsigned char axis)
- void SetMCMaxTravelEeprom (unsigned char busnumber, unsigned char busaddress, unsigned char axis, int travel)
- int GetMCMaxTravelEeprom (unsigned char busnumber, unsigned char busaddress, unsigned char axis)
- · void SetMCMaxTravel (unsigned char busnumber, unsigned char busaddress, unsigned char axis, int travel)
- int GetMCMaxTravel (unsigned char busnumber, unsigned char busaddress, unsigned char axis)
- void SetMCCurrentEeprom (unsigned char busnumber, unsigned char busaddress, unsigned char axis, short current)
- short GetMCCurrentEeprom (unsigned char busnumber, unsigned char busaddress, unsigned char axis)
- void SetMCCurrent (unsigned char busnumber, unsigned char busaddress, unsigned char axis, short current)
- short GetMCCurrent (unsigned char busnumber, unsigned char busaddress, unsigned char axis)
- void SetMCMaxCurrentEeprom (unsigned char busnumber, unsigned char busaddress, unsigned char axis, short current)
- short GetMCMaxCurrentEeprom (unsigned char busnumber, unsigned char busaddress, unsigned char axis)
- void SetMCMaxCurrent (unsigned char busnumber, unsigned char busaddress, unsigned char axis, short current)
- short GetMCMaxCurrent (unsigned char busnumber, unsigned char busaddress, unsigned char axis)
- void SetMCRegulatorGainEeprom (unsigned char busnumber, unsigned char busaddress, unsigned char axis, short gain)
- short GetMCRegulatorGainEeprom (unsigned char busnumber, unsigned char busaddress, unsigned char axis)
- void SetMCRegulatorGain (unsigned char busnumber, unsigned char busaddress, unsigned char axis, short gain)
- short GetMCRegulatorGain (unsigned char busnumber, unsigned char busaddress, unsigned char axis)
- void SetMCMaxAccelerationEeprom (unsigned char busnumber, unsigned char busaddress, unsigned char axis, unsigned short acceleration)
- unsigned short GetMCMaxAccelerationEeprom (unsigned char busnumber, unsigned char busaddress, unsigned char axis)
- void SetMCMaxAcceleration (unsigned char busnumber, unsigned char busaddress, unsigned char axis, unsigned short acceleration)
- unsigned short GetMCMaxAcceleration (unsigned char busnumber, unsigned char busaddress, unsigned char axis)
- void SetMCStandbyCurrentEeprom (unsigned char busnumber, unsigned char busaddress, unsigned char axis, short percent)
- short GetMCStandbyCurrentEeprom (unsigned char busnumber, unsigned char busaddress, unsigned char axis)
- void SetMCStandbyCurrent (unsigned char busnumber, unsigned char busaddress, unsigned char axis, short percent)
- short GetMCStandbyCurrent (unsigned char busnumber, unsigned char busaddress, unsigned char axis)

- void SetMCStandbyTimeEeprom (unsigned char busnumber, unsigned char busaddress, unsigned char axis, short t)
- short GetMCStandbyTimeEeprom (unsigned char busnumber, unsigned char busaddress, unsigned char axis)
- void SetMCStandbyTime (unsigned char busnumber, unsigned char busaddress, unsigned char axis, short t)
- short GetMCStandbyTime (unsigned char busnumber, unsigned char busaddress, unsigned char axis)
- void SetMCBreakCurrentEeprom (unsigned char busnumber, unsigned char busaddress, unsigned char axis, short current)
- short GetMCBreakCurrentEeprom (unsigned char busnumber, unsigned char busaddress, unsigned char axis)
- void SetMCBreakCurrent (unsigned char busnumber, unsigned char busaddress, unsigned char axis, short current)
- short GetMCBreakCurrent (unsigned char busnumber, unsigned char busaddress, unsigned char axis)
- void SetMCConfigEeprom (unsigned char busnumber, unsigned char busaddress, unsigned char axis, unsigned short config)
- unsigned short GetMCConfigEeprom (unsigned char busnumber, unsigned char busaddress, unsigned char axis)
- void SetMCConfig (unsigned char busnumber, unsigned char busaddress, unsigned char axis, unsigned short config)
- unsigned short GetMCConfig (unsigned char busnumber, unsigned char busaddress, unsigned char axis)
- void SetMCSpeedEeprom (unsigned char busnumber, unsigned char busaddress, unsigned char axis, unsigned short speed)
- unsigned short GetMCSpeedEeprom (unsigned char busnumber, unsigned char busaddress, unsigned char axis)
- void SetMCSpeed (unsigned char busnumber, unsigned char busaddress, unsigned char axis, short speed)
- short GetMCSpeed (unsigned char busnumber, unsigned char busaddress, unsigned char axis)
- void SetMCAccelerationEeprom (unsigned char busnumber, unsigned char busaddress, unsigned char axis, unsigned short acceleration)
- unsigned short GetMCAccelerationEeprom (unsigned char busnumber, unsigned char busaddress, unsigned char axis)
- void SetMCAcceleration (unsigned char busnumber, unsigned char busaddress, unsigned char axis, unsigned short acceleration)
- unsigned short GetMCAcceleration (unsigned char busnumber, unsigned char busnumber,
- void SetMCReferenceCurrentEeprom (unsigned char busnumber, unsigned char busaddress, unsigned char axis, short current)
- short GetMCReferenceCurrentEeprom (unsigned char busnumber, unsigned char busaddress, unsigned char axis)
- void SetMCReferenceCurrent (unsigned char busnumber, unsigned char busaddress, unsigned char axis, short current)
- short GetMCReferenceCurrent (unsigned char busnumber, unsigned char busaddress, unsigned char axis)
- void SetMCCurrentModeEeprom (unsigned char busnumber, unsigned char busaddress, unsigned char axis, RoboCurrentModeEnumNet mode)
- RoboCurrentModeEnumNet GetMCCurrentModeEeprom (unsigned char busnumber, unsigned char axis)
- void SetMCCurrentMode (unsigned char busnumber, unsigned char busnumber, under bu
- RoboCurrentModeEnumNet GetMCCurrentMode (unsigned char busnumber, unsigned char busaddress, unsigned char axis)
- void SetMCAxisRevisionEeprom (unsigned char busnumber, unsigned char busaddress, unsigned char axis, unsigned short revision)
- unsigned short GetMCAxisRevisionEeprom (unsigned char busnumber, unsigned char busaddress, unsigned char axis)
- void SetMCSpeedUnitEeprom (unsigned char busnumber, unsigned char busaddress, unsigned char axis, int32 t speedunit)
- int32_t GetMCSpeedUnitEeprom (unsigned char busnumber, unsigned char busaddress, unsigned char axis)

- void SetMCOutputOnOff (unsigned char busnumber, unsigned char busaddress, unsigned char axis, bool OnOff status)
- bool GetMCOutputOnOff (unsigned char busnumber, unsigned char busaddress, unsigned char axis)
- void SetMCSpeedShortCommand (unsigned char busnumber, unsigned char busnumber, unsi
- short GetMCSpeedShortCommand (unsigned char busnumber, unsigned char busaddress, unsigned char axis)
- void SetMCAccelerationShortCommand (unsigned char busnumber, unsigned char busaddress, unsigned char axis, unsigned short acceleration)
- unsigned short GetMCAccelerationShortCommand (unsigned char busnumber, unsigned char busaddress, unsigned char axis)
- void SetMCCurrentShortCommand (unsigned char busnumber, unsigned char busaddress, unsigned char axis, short current)
- short GetMCCurrentShortCommand (unsigned char busnumber, unsigned char busaddress, unsigned char axis)
- void SetMCMaxTravelShortCommand (unsigned char busnumber, unsigned char busaddress, unsigned char axis, int travel)
- int GetMCMaxTravelShortCommand (unsigned char busnumber, unsigned char busaddress, unsigned char axis)
- void SetMCCurrentPosition (unsigned char busnumber, unsigned char busaddress, unsigned char axis, int position)
- int GetMCCurrentPosition (unsigned char busnumber, unsigned char busn
- void SetMCNewPosition (unsigned char busnumber, unsigned char busaddress, unsigned char axis, int position)
- int GetMCNewPosition (unsigned char busnumber, unsigned char busaddress, unsigned char axis)
- short GetMCCurrentSpeed (unsigned char busnumber, unsigned char busaddress, unsigned char axis)
- · void StartMCMovement (unsigned char busnumber, unsigned char busaddress, unsigned char axis)
- void SetMCRotation (unsigned char busnumber, unsigned char busaddress, unsigned char axis, unsigned char onoff)
- unsigned short GetMCMovement (unsigned char busnumber, unsigned char busaddress, unsigned char axis)
- void SetMCReference (unsigned char busnumber, unsigned char busaddress, unsigned char axis, unsigned char switch_enable, unsigned char switch_polarity)
- unsigned char GetMCReference (unsigned char busnumber, unsigned char busaddress, unsigned char axis, [System::Runtime::InteropServices::Out]unsigned char% switch_port)
- void StopMCMovement (unsigned char busnumber, unsigned char busaddress, unsigned char axis)
- void SetMCCurrentModeShortCommand (unsigned char busnumber, unsigned char busaddress, unsigned char axis, RoboCurrentModeEnumNet mode)
- RoboCurrentModeEnumNet GetMCCurrentModeShortCommand (unsigned char busnumber, unsigned char busnumber, unsigned char axis)
- unsigned short GetMCPhase (unsigned char busnumber, unsigned char busaddress, unsigned char axis)
- unsigned short GetMCPhaseOffset (unsigned char busnumber, unsigned char busaddress, unsigned char axis)
- void SetSubChannel (unsigned char busnumber, unsigned char busaddress, unsigned char axis, unsigned short subchannel)
- unsigned short GetSubChannel (unsigned char busnumber, unsigned char busaddress, unsigned char axis)

Additional Inherited Members

11.44.1 Constructor & Destructor Documentation

```
11.44.1.1 CMcsBus_MotorControlNet() CMcsBus_MotorControlNet (
              CMcsUsbNet^ device )
11.44.1.2 ~CMcsBus_MotorControlNet() ~CMcsBus_MotorControlNet (
              void )
11.44.2 Member Function Documentation
11.44.2.1 GetMCAcceleration() unsigned short GetMCAcceleration (
              unsigned char busnumber,
              unsigned char busaddress,
              unsigned char axis )
\textbf{11.44.2.2} \quad \textbf{GetMCAccelerationEeprom()} \quad \textbf{unsigned short GetMCAccelerationEeprom ()}
              unsigned char busnumber,
              unsigned char busaddress,
              unsigned char axis )
\textbf{11.44.2.3} \quad \textbf{GetMCAccelerationShortCommand()} \quad \textbf{unsigned short GetMCAccelerationShortCommand ()} \\
              unsigned char busnumber,
              unsigned char busaddress,
              unsigned char axis )
11.44.2.4 GetMCAxisRevisionEeprom() unsigned short GetMCAxisRevisionEeprom (
              unsigned char busnumber,
              unsigned char busaddress,
              unsigned char axis )
11.44.2.5 GetMCBreakCurrent() short GetMCBreakCurrent (
              unsigned char busnumber,
              unsigned char busaddress,
              unsigned char axis )
```

```
11.44.2.6 GetMCBreakCurrentEeprom() short GetMCBreakCurrentEeprom (
              unsigned char busnumber,
              unsigned char busaddress,
              unsigned char axis )
11.44.2.7 GetMCConfig() unsigned short GetMCConfig (
              unsigned char busnumber,
              unsigned char busaddress,
              unsigned char axis )
11.44.2.8 GetMCConfigEeprom() unsigned short GetMCConfigEeprom (
              unsigned char busnumber,
              unsigned char busaddress,
              unsigned char axis )
11.44.2.9 GetMCCurrent() short GetMCCurrent (
              unsigned char busnumber,
              unsigned char busaddress,
             unsigned char axis )
11.44.2.10 GetMCCurrentEeprom() short GetMCCurrentEeprom (
              unsigned char busnumber,
              unsigned char busaddress,
              unsigned char axis )
11.44.2.11 GetMCCurrentMode() RoboCurrentModeEnumNet GetMCCurrentMode (
              unsigned char busnumber,
              unsigned char busaddress,
              unsigned char axis )
\textbf{11.44.2.12} \quad \textbf{GetMCCurrentModeEeprom()} \quad \texttt{RoboCurrentModeEnumNet} \quad \texttt{GetMCCurrentModeEeprom} \quad \textbf{(}
              unsigned char busnumber,
              unsigned char busaddress,
              unsigned char axis )
```

```
11.44.2.13 GetMCCurrentModeShortCommand() RoboCurrentModeEnumNet GetMCCurrentModeShort←
Command (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis )
11.44.2.14 GetMCCurrentPosition() int GetMCCurrentPosition (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis )
11.44.2.15 GetMCCurrentShortCommand() short GetMCCurrentShortCommand (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis )
11.44.2.16 GetMCCurrentSpeed() short GetMCCurrentSpeed (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis )
11.44.2.17 GetMCMaxAcceleration() unsigned short GetMCMaxAcceleration (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis )
\textbf{11.44.2.18} \quad \textbf{GetMCMaxAccelerationEeprom()} \quad \textbf{unsigned short GetMCMaxAccelerationEeprom ()}
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis )
11.44.2.19 GetMCMaxCurrent() short GetMCMaxCurrent (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis )
```

```
11.44.2.20 GetMCMaxCurrentEeprom() short GetMCMaxCurrentEeprom (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis )
11.44.2.21 GetMCMaxSpeed() unsigned short GetMCMaxSpeed (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis )
11.44.2.22 GetMCMaxSpeedEeprom() unsigned short GetMCMaxSpeedEeprom (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis )
11.44.2.23 GetMCMaxTravel() int GetMCMaxTravel (
             unsigned char busnumber,
             unsigned char busaddress,
            unsigned char axis )
11.44.2.24 GetMCMaxTravelEeprom() int GetMCMaxTravelEeprom (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis )
11.44.2.25 GetMCMaxTravelShortCommand() int GetMCMaxTravelShortCommand (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis )
11.44.2.26 GetMCMovement() unsigned short GetMCMovement (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis )
```

```
11.44.2.27 GetMCNewPosition() int GetMCNewPosition (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis )
11.44.2.28 GetMCOutputOnOff() bool GetMCOutputOnOff (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis )
11.44.2.29 GetMCPhase() unsigned short GetMCPhase (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis )
\textbf{11.44.2.30} \quad \textbf{GetMCPhaseOffset()} \quad \texttt{unsigned short GetMCPhaseOffset ()}
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis )
11.44.2.31 GetMCReference() unsigned char GetMCReference (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             [System::Runtime::InteropServices::Out] unsigned char% switch_port)
11.44.2.32 GetMCReferenceCurrent() short GetMCReferenceCurrent (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis )
11.44.2.33 GetMCReferenceCurrentEeprom() short GetMCReferenceCurrentEeprom (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis )
```

```
11.44.2.34 GetMCRegulatorGain() short GetMCRegulatorGain (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis )
11.44.2.35 GetMCRegulatorGainEeprom() short GetMCRegulatorGainEeprom (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis )
11.44.2.36 GetMCScalingFactor() int GetMCScalingFactor (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis )
11.44.2.37 GetMCScalingFactorEeprom() int GetMCScalingFactorEeprom (
             unsigned char busnumber,
             unsigned char busaddress,
            unsigned char axis )
11.44.2.38 GetMCSpeed() short GetMCSpeed (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis )
11.44.2.39 GetMCSpeedEeprom() unsigned short GetMCSpeedEeprom (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis )
11.44.2.40 GetMCSpeedShortCommand() short GetMCSpeedShortCommand (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis )
```

```
11.44.2.41 GetMCSpeedUnitEeprom() int32_t GetMCSpeedUnitEeprom (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis )
11.44.2.42 GetMCStandbyCurrent() short GetMCStandbyCurrent (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis )
\textbf{11.44.2.43} \quad \textbf{GetMCS} t and by \textbf{CurrentEeprom()} \quad \textbf{short GetMCS} t and by \textbf{CurrentEeprom ()}
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis )
11.44.2.44 GetMCStandbyTime() short GetMCStandbyTime (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis )
11.44.2.45 GetMCStandbyTimeEeprom() short GetMCStandbyTimeEeprom (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis )
11.44.2.46 GetSubChannel() unsigned short GetSubChannel (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis )
11.44.2.47 SetMCAcceleration() void SetMCAcceleration (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             unsigned short acceleration )
```

```
11.44.2.48 SetMCAccelerationEeprom() void SetMCAccelerationEeprom (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             unsigned short acceleration )
11.44.2.49 SetMCAccelerationShortCommand() void SetMCAccelerationShortCommand (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             unsigned short acceleration )
11.44.2.50 SetMCAxisRevisionEeprom() void SetMCAxisRevisionEeprom (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             unsigned short revision )
11.44.2.51 SetMCBreakCurrent() void SetMCBreakCurrent (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             short current )
11.44.2.52 SetMCBreakCurrentEeprom() void SetMCBreakCurrentEeprom (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             short current )
11.44.2.53 SetMCConfig() void SetMCConfig (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             unsigned short config )
```

```
11.44.2.54 SetMCConfigEeprom() void SetMCConfigEeprom (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             unsigned short config )
11.44.2.55 SetMCCurrent() void SetMCCurrent (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             short current )
11.44.2.56 SetMCCurrentEeprom() void SetMCCurrentEeprom (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             short current )
11.44.2.57 SetMCCurrentMode() void SetMCCurrentMode (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             RoboCurrentModeEnumNet mode )
\textbf{11.44.2.58} \quad \textbf{SetMCCurrentModeEeprom()} \quad \texttt{void SetMCCurrentModeEeprom ()}
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             RoboCurrentModeEnumNet mode )
11.44.2.59 SetMCCurrentModeShortCommand() void SetMCCurrentModeShortCommand (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             RoboCurrentModeEnumNet mode )
```

```
11.44.2.60 SetMCCurrentPosition() void SetMCCurrentPosition (
             unsigned char busnumber,
            unsigned char busaddress,
            unsigned char axis,
             int position )
11.44.2.61 SetMCCurrentShortCommand() void SetMCCurrentShortCommand (
             unsigned char busnumber,
            unsigned char busaddress,
             unsigned char axis,
             short current )
11.44.2.62 SetMCMaxAcceleration() void SetMCMaxAcceleration (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             unsigned short acceleration )
11.44.2.63 SetMCMaxAccelerationEeprom() void SetMCMaxAccelerationEeprom (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             unsigned short acceleration )
11.44.2.64 SetMCMaxCurrent() void SetMCMaxCurrent (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             short current )
11.44.2.65 SetMCMaxCurrentEeprom() void SetMCMaxCurrentEeprom (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             short current )
```

```
11.44.2.66 SetMCMaxSpeed() void SetMCMaxSpeed (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             unsigned short speed )
11.44.2.67 SetMCMaxSpeedEeprom() void SetMCMaxSpeedEeprom (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             unsigned short speed )
11.44.2.68 SetMCMaxTravel() void SetMCMaxTravel (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             int travel )
11.44.2.69 SetMCMaxTravelEeprom() void SetMCMaxTravelEeprom (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             int travel )
11.44.2.70 SetMCMaxTravelShortCommand() void SetMCMaxTravelShortCommand (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             int travel )
11.44.2.71 SetMCNewPosition() void SetMCNewPosition (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             int position )
```

```
11.44.2.72 SetMCOutputOnOff() void SetMCOutputOnOff (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             bool OnOff_status )
11.44.2.73 SetMCReference() void SetMCReference (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             unsigned char switch_enable,
             unsigned char switch_polarity)
11.44.2.74 SetMCReferenceCurrent() void SetMCReferenceCurrent (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             short current )
11.44.2.75 SetMCReferenceCurrentEeprom() void SetMCReferenceCurrentEeprom (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             short current )
11.44.2.76 SetMCRegulatorGain() void SetMCRegulatorGain (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             short gain )
11.44.2.77 SetMCRegulatorGainEeprom() void SetMCRegulatorGainEeprom (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             short gain )
```

```
11.44.2.78 SetMCRotation() void SetMCRotation (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             unsigned char onoff )
11.44.2.79 SetMCScalingFactor() void SetMCScalingFactor (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             int factor )
11.44.2.80 SetMCScalingFactorEeprom() void SetMCScalingFactorEeprom (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             int factor )
11.44.2.81 SetMCSpeed() void SetMCSpeed (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             short speed )
11.44.2.82 SetMCSpeedEeprom() void SetMCSpeedEeprom (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             unsigned short speed )
11.44.2.83 SetMCSpeedShortCommand() void SetMCSpeedShortCommand (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             short speed )
```

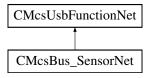
```
11.44.2.84 SetMCSpeedUnitEeprom() void SetMCSpeedUnitEeprom (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             int32_t speedunit )
11.44.2.85 SetMCStandbyCurrent() void SetMCStandbyCurrent (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             short percent )
11.44.2.86 SetMCStandbyCurrentEeprom() void SetMCStandbyCurrentEeprom (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             short percent )
11.44.2.87 SetMCStandbyTime() void SetMCStandbyTime (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             short t)
11.44.2.88 SetMCStandbyTimeEeprom() void SetMCStandbyTimeEeprom (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             short t )
11.44.2.89 SetSubChannel() void SetSubChannel (
             unsigned char busnumber,
            unsigned char busaddress,
             unsigned char axis,
             unsigned short subchannel )
11.44.2.90 StartMCMovement() void StartMCMovement (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis )
```

11.44.2.91 StopMCMovement() void StopMCMovement (

```
unsigned char busaumber,
unsigned char busaddress,
unsigned char axis )
```

11.45 CMcsBus_SensorNet Class Reference

Inheritance diagram for CMcsBus_SensorNet:



Public Member Functions

- CMcsBus SensorNet (CMcsUsbNet[^] device)
- · void SetMinimalThreshold (unsigned char busnumber, unsigned char busaddress, unsigned short threshold)
- unsigned short GetMinimalThreshold (unsigned char busnumber, unsigned char busaddress)
- void SetDetectionThreshold (unsigned char busnumber, unsigned char busaddress, unsigned short threshold)
- unsigned short GetDetectionThreshold (unsigned char busnumber, unsigned char busaddress)
- void SetLatency (unsigned char busnumber, unsigned char busaddress, unsigned short latency)
- unsigned short GetLatency (unsigned char busnumber, unsigned char busaddress)
- unsigned short GetBubbleStatus (unsigned char busnumber, unsigned char busaddress)
- unsigned short GetLatencyCounter (unsigned char busnumber, unsigned char busaddress)
- unsigned short GetDetectorValue (unsigned char busnumber, unsigned char busaddress)
- $array < int > ^ GetPressure$ (unsigned char busnumber, unsigned char busaddress, int n)
- int GetPressure (unsigned char busnumber, unsigned char busaddress, unsigned short index)
- void SetRegulatorOnOff (unsigned char busnumber, unsigned char busaddress, unsigned short index, unsigned char onoff)
- unsigned char GetRegulatorOnOff (unsigned char busnumber, unsigned char busaddress, unsigned short index)
- void SetSollPressure (unsigned char busnumber, unsigned char busaddress, unsigned short index, int pressure)
- int GetSollPressure (unsigned char busnumber, unsigned char busaddress, unsigned short index)
- void SetRegulatorFactor (unsigned char busnumber, unsigned char busaddress, unsigned short index, int factor)
- int GetRegulatorFactor (unsigned char busnumber, unsigned char busaddress, unsigned short index)
- void SetPressureOffset (unsigned char busnumber, unsigned char busaddress, unsigned short index)
- array< unsigned short > ^ GetPressureOffset (unsigned char busnumber, unsigned char busaddress)
- int GetPressureOffset (unsigned char busnumber, unsigned char busaddress, unsigned short index)
- unsigned int GetRegulatorStatus (unsigned char busnumber, unsigned char busaddress, unsigned short index)
- void SetRotatePump (unsigned char busnumber, unsigned char busaddress, unsigned short index, short speed)
- short GetRotatePump (unsigned char busnumber, unsigned char busaddress, unsigned short index)
- void SetMovePump (unsigned char busnumber, unsigned char busaddress, unsigned short index, unsigned short speed, int position)

- void SetRegulationTimeouts (unsigned char busnumber, unsigned char busaddress, unsigned short Max
 SpeedWait, unsigned short MaxSignChange)
- array< int > ^ Get4ADC (unsigned char busnumber, unsigned char busaddress)
- array< int > ^ Get4ADCAverage (unsigned char busnumber, unsigned char busaddress)
- void Set4DAC (unsigned char busnumber, unsigned char busaddress, array< unsigned short >^ dac)
- array< unsigned short > ^ Get4DAC (unsigned char busnumber, unsigned char busaddress)
- void Set4ADCMode (unsigned char busnumber, unsigned char busaddress, PatchServAdcModeEnumNet mode)
- PatchServAdcModeEnumNet Get4ADCMode (unsigned char busnumber, unsigned char busaddress)
- void Set4ADCCatchampAverageShift (unsigned char busnumber, unsigned char busaddress, unsigned int shift)
- · unsigned int Get4ADCCatchampAverageShift (unsigned char busnumber, unsigned char busaddress)
- array< unsigned short > ^ Get2AnalogInput (unsigned char busnumber, unsigned char busaddress)
- unsigned short Get2DigitalInput (unsigned char busnumber, unsigned char busaddress)
- array< unsigned short > ^ GetADCs (unsigned char busnumber, unsigned char busaddress, int n)
- array< unsigned short > ^ GetADCsLoop (unsigned char busnumber, unsigned char busaddress, int n)
- void SetPiezoState (unsigned char busnumber, unsigned char busaddress, int state)
- void SetDACs (unsigned char busnumber, unsigned char busaddress, unsigned short index, array< unsigned short >^ dac_times_voltages)
- array< unsigned short > ^ GetDACs (unsigned char busnumber, unsigned char busaddress, unsigned short index)
- void SetSamplePeriode (unsigned char busnumber, unsigned char busaddress, unsigned short periode)
- unsigned short GetSamplePeriode (unsigned char busnumber, unsigned char busaddress)
- · void StartSync (unsigned char busnumber, unsigned char busaddress)
- unsigned short GetSyncState (unsigned char busnumber, unsigned char busaddress)
- void CatchAmpSetDacAmplitude (unsigned char busnumber, unsigned char busaddress, unsigned short dacAmplitude)
- unsigned short CatchAmpGetDacAmplitude (unsigned char busnumber, unsigned char busaddress)
- void CatchAmpSetDacOffset (unsigned char busnumber, unsigned char busaddress, short dacOffset)
- short CatchAmpGetDacOffset (unsigned char busnumber, unsigned char busaddress)
- int CatchAmpGetAdcMean (unsigned char busnumber, unsigned char busaddress)
- int CatchAmpGetAdcValue (unsigned char busnumber, unsigned char busaddress)
- int CatchAmpGetAdcValueH (unsigned char busnumber, unsigned char busaddress)
- int CatchAmpGetAdcValueL (unsigned char busnumber, unsigned char busaddress)
- void CatchAmpSetPwmEnable (unsigned char busnumber, unsigned char busaddress, bool pwmEnable)
- bool CatchAmpGetPwmEnable (unsigned char busnumber, unsigned char busaddress)
- void CatchAmpSetDacEnable (unsigned char busnumber, unsigned char busaddress, bool dacEnable)
- bool CatchAmpGetDacEnable (unsigned char busnumber, unsigned char busaddress)
- int TactSwitchGetState (unsigned char busnumber, unsigned char busaddress)
- void TactSwitchSetDisplay (unsigned char busnumber, unsigned char busaddress, int Melody)

Additional Inherited Members

11.45.1 Constructor & Destructor Documentation

```
11.45.1.1 CMcsBus_SensorNet() CMcsBus_SensorNet (
            CMcsUsbNet^ device )
11.45.1.2 ~CMcsBus_SensorNet() ~CMcsBus_SensorNet (
            void )
11.45.2 Member Function Documentation
11.45.2.1 CatchAmpGetAdcMean() int CatchAmpGetAdcMean (
            unsigned char busnumber,
            unsigned char busaddress )
11.45.2.2 CatchAmpGetAdcValue() int CatchAmpGetAdcValue (
            unsigned char busnumber,
            unsigned char busaddress )
11.45.2.3 CatchAmpGetAdcValueH() int CatchAmpGetAdcValueH (
            unsigned char busnumber,
            unsigned char busaddress )
11.45.2.4 CatchAmpGetAdcValueL() int CatchAmpGetAdcValueL (
            unsigned char busnumber,
            unsigned char busaddress )
11.45.2.5 CatchAmpGetDacAmplitude() unsigned short CatchAmpGetDacAmplitude (
            unsigned char busnumber,
            unsigned char busaddress )
11.45.2.6 CatchAmpGetDacEnable() bool CatchAmpGetDacEnable (
            unsigned char busnumber,
            unsigned char busaddress )
```

```
11.45.2.7 CatchAmpGetDacOffset() short CatchAmpGetDacOffset (
             unsigned char busnumber,
             unsigned char busaddress )
11.45.2.8 CatchAmpGetPwmEnable() bool CatchAmpGetPwmEnable (
             unsigned char busnumber,
             unsigned char busaddress )
11.45.2.9 CatchAmpSetDacAmplitude() void CatchAmpSetDacAmplitude (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned short dacAmplitude )
11.45.2.10 CatchAmpSetDacEnable() void CatchAmpSetDacEnable (
             unsigned char busnumber,
             unsigned char busaddress,
             bool dacEnable )
11.45.2.11 CatchAmpSetDacOffset() void CatchAmpSetDacOffset (
             unsigned char busnumber,
             unsigned char busaddress,
             short dacOffset )
11.45.2.12 CatchAmpSetPwmEnable() void CatchAmpSetPwmEnable (
             unsigned char busnumber,
             unsigned char busaddress,
             bool pwmEnable )
11.45.2.13 Get2AnalogInput() array<unsigned short> ^ Get2AnalogInput (
             unsigned char busnumber,
             unsigned char busaddress )
11.45.2.14 Get2DigitalInput() unsigned short Get2DigitalInput (
             unsigned char busnumber,
             unsigned char busaddress )
```

```
11.45.2.15 Get4ADC() array<int> ^ Get4ADC (
             unsigned char busnumber,
             unsigned char busaddress )
11.45.2.16 Get4ADCAverage() array<int> ^ Get4ADCAverage (
             unsigned char busnumber,
             unsigned char busaddress )
11.45.2.17 Get4ADCCatchampAverageShift() unsigned int Get4ADCCatchampAverageShift (
             unsigned char busnumber,
             unsigned char busaddress )
11.45.2.18 Get4ADCMode() PatchServAdcModeEnumNet Get4ADCMode (
             unsigned char busnumber,
             unsigned char busaddress )
11.45.2.19 Get4DAC() array<unsigned short> ^{\wedge} Get4DAC (
             unsigned char busnumber,
             unsigned char busaddress )
11.45.2.20 GetADCs() array<unsigned short> ^{\land} GetADCs (
             unsigned char busnumber,
             unsigned char busaddress,
             int n)
11.45.2.21 GetADCsLoop() array<unsigned short> ^ GetADCsLoop (
             unsigned char busnumber,
             unsigned char busaddress,
             int n)
11.45.2.22 GetBubbleStatus() unsigned short GetBubbleStatus (
             unsigned char busnumber,
             unsigned char busaddress )
```

```
11.45.2.23 GetDACs() array<unsigned short> ^ GetDACs (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned short index )
11.45.2.24 GetDetectionThreshold() unsigned short GetDetectionThreshold (
             unsigned char busnumber,
             unsigned char busaddress )
11.45.2.25 GetDetectorValue() unsigned short GetDetectorValue (
             unsigned char busnumber,
             unsigned char busaddress )
11.45.2.26 GetLatency() unsigned short GetLatency (
             unsigned char busnumber,
             unsigned char busaddress )
11.45.2.27 GetLatencyCounter() unsigned short GetLatencyCounter (
             unsigned char busnumber,
             unsigned char busaddress )
11.45.2.28 GetMinimalThreshold() unsigned short GetMinimalThreshold (
             unsigned char busnumber,
             unsigned char busaddress )
11.45.2.29 GetMovePump() void GetMovePump (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned short index,
             [System::Runtime::InteropServices::Out] unsigned short% speed,
             [System::Runtime::InteropServices::Out] int% position )
11.45.2.30 GetPiezoState() void GetPiezoState (
             unsigned char busnumber,
             unsigned char busaddress,
             [System::Runtime::InteropServices::Out] int% state,
             [System::Runtime::InteropServices::Out] int% reason )
```

```
11.45.2.31 GetPressure() [1/2] array<int> ^ GetPressure (
              unsigned char busnumber,
              unsigned char busaddress,
              int n)
11.45.2.32 GetPressure() [2/2] int GetPressure (
              unsigned char busnumber,
              unsigned char busaddress,
              unsigned short index )
\textbf{11.45.2.33} \quad \textbf{GetPressureOffset() [1/2]} \quad \texttt{array} < \texttt{unsigned short} > \\ ^{\land} \quad \texttt{GetPressureOffset ()}
              unsigned char busnumber,
              unsigned char busaddress )
11.45.2.34 GetPressureOffset() [2/2] int GetPressureOffset (
              unsigned char busnumber,
              unsigned char busaddress,
              unsigned short index)
11.45.2.35 GetRegulationTimeouts() void GetRegulationTimeouts (
              unsigned char busnumber,
              unsigned char busaddress,
              [System::Runtime::InteropServices::Out] unsigned short% MaxSpeedWait,
              [System::Runtime::InteropServices::Out] unsigned short% MaxSignChange )
11.45.2.36 GetRegulatorFactor() int GetRegulatorFactor (
              unsigned char busnumber,
              unsigned char busaddress,
              unsigned short index )
11.45.2.37 GetRegulatorOnOff() unsigned char GetRegulatorOnOff (
              unsigned char busnumber,
              unsigned char busaddress,
              unsigned short index )
```

```
11.45.2.38 GetRegulatorStatus() unsigned int GetRegulatorStatus (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned short index )
11.45.2.39 GetRotatePump() short GetRotatePump (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned short index )
11.45.2.40 GetSamplePeriode() unsigned short GetSamplePeriode (
             unsigned char busnumber,
             unsigned char busaddress )
11.45.2.41 GetSollPressure() int GetSollPressure (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned short index)
11.45.2.42 GetSyncState() unsigned short GetSyncState (
             unsigned char busnumber,
             unsigned char busaddress )
11.45.2.43 Set4ADCCatchampAverageShift() void Set4ADCCatchampAverageShift (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned int shift )
11.45.2.44 Set4ADCMode() void Set4ADCMode (
             unsigned char busnumber,
             unsigned char busaddress,
             PatchServAdcModeEnumNet mode )
```

```
11.45.2.45 Set4DAC() void Set4DAC (
             unsigned char busnumber,
             unsigned char busaddress,
             array< unsigned short >^{\wedge} dac )
11.45.2.46 SetDACs() void SetDACs (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned short index,
             array < unsigned short >^{\wedge} dac\_times\_voltages)
11.45.2.47 SetDetectionThreshold() void SetDetectionThreshold (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned short threshold )
11.45.2.48 SetLatency() void SetLatency (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned short latency )
11.45.2.49 SetMinimalThreshold() void SetMinimalThreshold (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned short threshold )
11.45.2.50 SetMovePump() void SetMovePump (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned short index,
             unsigned short speed,
             int position )
11.45.2.51 SetPiezoState() void SetPiezoState (
             unsigned char busnumber,
             unsigned char busaddress,
             int state )
```

```
11.45.2.52 SetPressureOffset() void SetPressureOffset (
              unsigned char busnumber,
              unsigned char busaddress,
              unsigned short index )
11.45.2.53 SetRegulationTimeouts() void SetRegulationTimeouts (
              unsigned char busnumber,
              unsigned char busaddress,
              unsigned short MaxSpeedWait,
              unsigned short MaxSignChange )
11.45.2.54 SetRegulatorFactor() void SetRegulatorFactor (
              unsigned char busnumber,
              unsigned char busaddress,
              unsigned short index,
              int factor )
\textbf{11.45.2.55} \quad \textbf{SetRegulatorOnOff()} \quad \texttt{void SetRegulatorOnOff} \ \ (
              unsigned char busnumber,
              unsigned char busaddress,
              unsigned short index,
              unsigned char onoff )
\textbf{11.45.2.56} \quad \textbf{SetRotatePump()} \quad \texttt{void SetRotatePump} \ \ \textbf{(}
              unsigned char busnumber,
              unsigned char busaddress,
              unsigned short index,
              short speed )
11.45.2.57 SetSamplePeriode() void SetSamplePeriode (
              unsigned char busnumber,
              unsigned char busaddress,
              unsigned short periode )
11.45.2.58 SetSollPressure() void SetSollPressure (
              unsigned char busnumber,
              unsigned char busaddress,
              unsigned short index,
              int pressure )
```

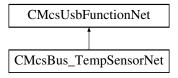
```
11.45.2.59 StartSync() void StartSync (
          unsigned char busnumber,
          unsigned char busaddress )

11.45.2.60 TactSwitchGetState() int TactSwitchGetState (
          unsigned char busnumber,
          unsigned char busaddress )

11.45.2.61 TactSwitchSetDisplay() void TactSwitchSetDisplay (
          unsigned char busnumber,
          unsigned char busnumber,
          unsigned char busaddress,
          int Melody )
```

11.46 CMcsBus_TempSensorNet Class Reference

Inheritance diagram for CMcsBus_TempSensorNet:



Public Member Functions

- CMcsBus TempSensorNet (CMcsUsbNet[^] device)
- ∼CMcsBus TempSensorNet (void)
- short GetTemperatur (unsigned char busnumber, unsigned char busaddress)
- short GetTemperatur (unsigned char busnumber, unsigned char busaddress, short index)
- · void SetNanoVoltsPerKelvin (unsigned char busnumber, unsigned char busaddress, int nanovoltsperkelvin)
- int GetNanoVoltsPerKelvin (unsigned char busnumber, unsigned char busaddress)
- short GetThermoVoltage (unsigned char busnumber, unsigned char busaddress, short index)
- short GetThermoTemp (unsigned char busnumber, unsigned char busaddress, short index)
- void SetThermoOffset (unsigned char busnumber, unsigned char busaddress, short index, short offset)
- short GetThermoOffset (unsigned char busnumber, unsigned char busaddress, short index)

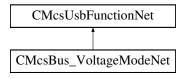
Additional Inherited Members

11.46.1 Constructor & Destructor Documentation

```
11.46.1.1 CMcsBus_TempSensorNet() CMcsBus_TempSensorNet (
               CMcsUsbNet^ device )
11.46.1.2 \sim CMcsBus_TempSensorNet() \sim CMcsBus_TempSensorNet (
               void )
11.46.2 Member Function Documentation
\textbf{11.46.2.1} \quad \textbf{GetNanoVoltsPerKelvin()} \quad \texttt{int GetNanoVoltsPerKelvin ()}
               unsigned char busnumber,
               unsigned char busaddress )
11.46.2.2 GetTemperatur() [1/2] short GetTemperatur (
               unsigned char busnumber,
               unsigned char busaddress )
11.46.2.3 GetTemperatur() [2/2] short GetTemperatur (
               unsigned char busnumber,
               unsigned char busaddress,
               short index )
\textbf{11.46.2.4} \quad \textbf{GetThermoOffset()} \quad \texttt{short GetThermoOffset ()}
               unsigned char busnumber,
               unsigned char busaddress,
               short index )
\textbf{11.46.2.5} \quad \textbf{GetThermoTemp()} \quad \texttt{short GetThermoTemp} \quad \textbf{(}
               unsigned char busnumber,
               unsigned char busaddress,
               short index )
```

11.47 CMcsBus VoltageModeNet Class Reference

Inheritance diagram for CMcsBus_VoltageModeNet:



Public Member Functions

- CMcsBus_VoltageModeNet (CMcsUsbNet[^] device)
- ~CMcsBus_VoltageModeNet (void)
- void SetVMMaxPositiveCurrentEeprom (unsigned char busnumber, unsigned char busaddress, unsigned char channel, short current)
- short GetVMMaxPositiveCurrentEeprom (unsigned char busnumber, unsigned char busaddress, unsigned char channel)
- void SetVMMaxPositiveCurrent (unsigned char busnumber, unsigned char busaddress, unsigned char channel, short current)
- short GetVMMaxPositiveCurrent (unsigned char busnumber, unsigned char busaddress, unsigned char channel)
- void SetVMMaxNegativeCurrentEeprom (unsigned char busnumber, unsigned char busaddress, unsigned char channel, short current)
- short GetVMMaxNegativeCurrentEeprom (unsigned char busnumber, unsigned char busaddress, unsigned char channel)
- void SetVMMaxNegativeCurrent (unsigned char busnumber, unsigned char busaddress, unsigned char channel, short current)
- short GetVMMaxNegativeCurrent (unsigned char busnumber, unsigned char busaddress, unsigned char channel)

- void SetVMMaxPositiveVoltageEeprom (unsigned char busnumber, unsigned char busaddress, unsigned char channel, short voltage)
- short GetVMMaxPositiveVoltageEeprom (unsigned char busnumber, unsigned char busaddress, unsigned char channel)
- void SetVMMaxPositiveVoltage (unsigned char busnumber, unsigned char busaddress, unsigned char channel, short voltage)
- short GetVMMaxPositiveVoltage (unsigned char busnumber, unsigned char busaddress, unsigned char channel)
- void SetVMMaxNegativeVoltageEeprom (unsigned char busnumber, unsigned char busaddress, unsigned char channel, short voltage)
- short GetVMMaxNegativeVoltageEeprom (unsigned char busnumber, unsigned char busaddress, unsigned char channel)
- void SetVMMaxNegativeVoltage (unsigned char busnumber, unsigned char busaddress, unsigned char channel, short voltage)
- short GetVMMaxNegativeVoltage (unsigned char busnumber, unsigned char busaddress, unsigned char channel)
- void SetVMOutputOnOff (unsigned char busnumber, unsigned char busaddress, unsigned char channel, unsigned short status)
- unsigned short GetVMOutputOnOff (unsigned char busnumber, unsigned char busaddress, unsigned char channel)
- void SetVMVoltage (unsigned char busnumber, unsigned char busaddress, unsigned char channel, short voltage)
- short GetVMVoltage (unsigned char busnumber, unsigned char busaddress, unsigned char channel)

Additional Inherited Members

11.47.1 Constructor & Destructor Documentation

11.47.2 Member Function Documentation

```
11.47.2.1 GetVMMaxNegativeCurrent() short GetVMMaxNegativeCurrent (
    unsigned char busnumber,
    unsigned char busaddress,
    unsigned char channel )
```

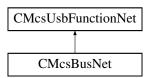
```
11.47.2.2 GetVMMaxNegativeCurrentEeprom() short GetVMMaxNegativeCurrentEeprom (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char {\it channel} )
11.47.2.3 GetVMMaxNegativeVoltage() short GetVMMaxNegativeVoltage (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char channel )
11.47.2.4 GetVMMaxNegativeVoltageEeprom() short GetVMMaxNegativeVoltageEeprom (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char channel )
11.47.2.5 GetVMMaxPositiveCurrent() short GetVMMaxPositiveCurrent (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char channel )
11.47.2.6 GetVMMaxPositiveCurrentEeprom() short GetVMMaxPositiveCurrentEeprom (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char channel )
11.47.2.7 GetVMMaxPositiveVoltage() short GetVMMaxPositiveVoltage (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char channel )
11.47.2.8 GetVMMaxPositiveVoltageEeprom() short GetVMMaxPositiveVoltageEeprom (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char channel )
```

```
11.47.2.9 GetVMOutputOnOff() unsigned short GetVMOutputOnOff (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char channel )
11.47.2.10 GetVMVoltage() short GetVMVoltage (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char channel )
11.47.2.11 SetVMMaxNegativeCurrent() void SetVMMaxNegativeCurrent (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char channel,
             short current )
11.47.2.12 SetVMMaxNegativeCurrentEeprom() void SetVMMaxNegativeCurrentEeprom (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char channel,
             short current )
11.47.2.13 SetVMMaxNegativeVoltage() void SetVMMaxNegativeVoltage (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char channel,
             short voltage )
11.47.2.14 SetVMMaxNegativeVoltageEeprom() void SetVMMaxNegativeVoltageEeprom (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char channel,
             short\ voltage )
11.47.2.15 SetVMMaxPositiveCurrent() void SetVMMaxPositiveCurrent (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char channel,
             short current )
```

```
11.47.2.16 SetVMMaxPositiveCurrentEeprom() void SetVMMaxPositiveCurrentEeprom (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char channel,
             short current )
11.47.2.17 SetVMMaxPositiveVoltage() void SetVMMaxPositiveVoltage (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char channel,
             short voltage )
11.47.2.18 SetVMMaxPositiveVoltageEeprom() void SetVMMaxPositiveVoltageEeprom (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char channel,
             short voltage )
11.47.2.19 SetVMOutputOnOff() void SetVMOutputOnOff (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char channel,
             unsigned short status )
11.47.2.20 SetVMVoltage() void SetVMVoltage (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char channel,
             short voltage )
```

11.48 CMcsBusNet Class Reference

Inheritance diagram for CMcsBusNet:



Public Member Functions

- CMcsBusNet (CMcsUsbNet[^] device)
- virtual ∼CMcsBusNet (void)
- void SetCommand (unsigned char command, unsigned char busnumber, unsigned char busaddress, unsigned char axis, unsigned short value)
- void SetCommand (unsigned char command, unsigned char busnumber, unsigned char busaddress, unsigned char axis, short value)
- void SetCommand (unsigned char command, unsigned char busnumber, unsigned char busaddress, unsigned char axis, unsigned int value)
- void SetCommand (unsigned char command, unsigned char busnumber, unsigned char busaddress, unsigned char axis, int value)
- void GetCommand (unsigned char command, unsigned char busnumber, unsigned char busaddress, unsigned char axis, [System::Runtime::InteropServices::Out]unsigned short% value)
- void GetCommand (unsigned char command, unsigned char busnumber, unsigned char busaddress, unsigned char axis, [System::Runtime::InteropServices::Out]short% value)
- void GetCommand (unsigned char command, unsigned char busnumber, unsigned char busaddress, unsigned char axis, [System::Runtime::InteropServices::Out]unsigned int% value)
- void GetCommand (unsigned char command, unsigned char busnumber, unsigned char busaddress, unsigned char axis, [System::Runtime::InteropServices::Out]int% value)
- void SetBusAddressEeprom (unsigned char busnumber, unsigned char busaddress, unsigned short newaddress)
- unsigned short GetBusAddressEeprom (unsigned char busnumber, unsigned char busaddress)
- void SetBusAddress (unsigned char busnumber, unsigned char busaddress, unsigned short newaddress)
- unsigned short GetBusAddress (unsigned char busnumber, unsigned char busaddress)
- void CMcsBusNet::SetModeEeprom (unsigned char busnumber, unsigned char busaddress, unsigned short mode)
- unsigned short CMcsBusNet::GetModeEeprom (unsigned char busnumber, unsigned char busaddress)
- void CMcsBusNet::SetMode (unsigned char busnumber, unsigned char busaddress, unsigned short mode)
- unsigned short CMcsBusNet::GetMode (unsigned char busnumber, unsigned char busaddress)
- void SetHWRevisionEeprom (unsigned char busnumber, unsigned char busaddress, unsigned short revision)
- unsigned short GetHWRevisionEeprom (unsigned char busnumber, unsigned char busaddress)

Additional Inherited Members

11.48.1 Constructor & Destructor Documentation

11.48.2 Member Function Documentation

```
11.48.2.1 CMcsBusNet::GetMode() unsigned short CMcsBusNet::GetMode (
              unsigned char busnumber,
              unsigned char busaddress )
\textbf{11.48.2.2} \quad \textbf{CMcsBusNet::} \textbf{GetModeEeprom()} \quad \textbf{unsigned short CMcsBusNet::} \textbf{GetModeEeprom ()}
              unsigned char busnumber,
              unsigned char busaddress )
11.48.2.3 CMcsBusNet::SetMode() void CMcsBusNet::SetMode (
              unsigned char busnumber,
              unsigned char busaddress,
              unsigned short mode )
11.48.2.4 CMcsBusNet::SetModeEeprom() void CMcsBusNet::SetModeEeprom (
              unsigned char busnumber,
              unsigned char busaddress,
              unsigned short mode )
11.48.2.5 GetBusAddress() unsigned short GetBusAddress (
              unsigned char busnumber,
              unsigned char busaddress )
\textbf{11.48.2.6} \quad \textbf{GetBusAddressEeprom()} \quad \texttt{unsigned short GetBusAddressEeprom ()}
              unsigned char busnumber,
              unsigned char busaddress )
11.48.2.7 GetCommand() [1/4] void GetCommand (
              unsigned char command,
              unsigned char busnumber,
              unsigned char busaddress,
              unsigned char axis,
              [System::Runtime::InteropServices::Out] int% value )
```

```
11.48.2.8 GetCommand() [2/4] void GetCommand (
             unsigned char command,
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             [System::Runtime::InteropServices::Out] short% value )
11.48.2.9 GetCommand() [3/4] void GetCommand (
             unsigned char command,
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             [{\tt System::Runtime::InteropServices::Out]} \  \, {\tt unsigned int} \% \  \, {\tt value} \ )
11.48.2.10 GetCommand() [4/4] void GetCommand (
             unsigned char command,
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             [System::Runtime::InteropServices::Out] unsigned short% value )
11.48.2.11 GetHWRevisionEeprom() unsigned short GetHWRevisionEeprom (
             unsigned char busnumber,
             unsigned char busaddress )
11.48.2.12 SetBusAddress() void SetBusAddress (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned short newaddress )
11.48.2.13 SetBusAddressEeprom() void SetBusAddressEeprom (
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned short newaddress )
11.48.2.14 SetCommand() [1/4] void SetCommand (
             unsigned char command,
             unsigned char busnumber,
             unsigned char busaddress,
             unsigned char axis,
             int value )
```

11.48.2.15 SetCommand() [2/4] void SetCommand (

```
unsigned char command,
unsigned char busnumber,
unsigned char busaddress,
unsigned char axis,
short value)
```

11.48.2.16 SetCommand() [3/4] void SetCommand (

```
unsigned char command,
unsigned char busnumber,
unsigned char busaddress,
unsigned char axis,
unsigned int value)
```

11.48.2.17 SetCommand() [4/4] void SetCommand (

```
unsigned char command,
unsigned char busnumber,
unsigned char busaddress,
unsigned char axis,
unsigned short value)
```

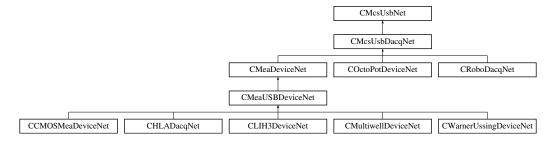
$\textbf{11.48.2.18} \quad \textbf{SetHWRevisionEeprom()} \quad \texttt{void SetHWRevisionEeprom ()}$

```
unsigned char busaddress,
unsigned char busaddress,
unsigned short revision )
```

11.49 CMcsUsbDacqNet Class Reference

Base class for data acquisition devices.

Inheritance diagram for CMcsUsbDacqNet:



Classes

· class CHWInfo

Class to provide hardware information about the device.

Public Member Functions

- CMcsUsbDacqNet ()
- ∼CMcsUsbDacqNet ()
- uint32_t GetErrorMessage ([System::Runtime::InteropServices::Out]String[^]% errorString, [System::←
 Runtime::InteropServices::Out]int% info)
- virtual uint32 t GetVoltageRangeIndex (unsigned int virtualDevice)
- virtual void SetVoltageRangeByIndex (int32_t voltageRangeIndex, unsigned int virtualDevice)

Sets the voltage range on devices which support multiple voltage ranges.

virtual void SetVoltageRangeInMicroVolt (int32 t voltageRange, unsigned int virtualDevice)

Sets the voltage range on devices which support multiple voltage ranges.

virtual int32 t GetVoltageRangeInMicroVolt (unsigned int virtualDevice)

Gets the currently selected voltage range on devices which support multiple voltage ranges.

virtual int32 t GetVoltageRangeInMilliVolt ()

Gets the currently selected voltage range on devices which support multiple voltage ranges.

virtual void SetDataMode (DataModeEnumNet dataMode, unsigned int virtualDevice)

Sets the data mode, can be 16, 24 or 32bit, all signed or unsigned on the MEA2100 device.

virtual DataModeEnumNet GetDataMode (unsigned int virtualDevice)

Gets the data mode, can be 16, 24 or 32bit, all signed or unsigned on the MEA2100 device.

void SetDigitalSource (DigitalTargetEnumNet digitaltarget, int32_t NrChannel, DigitalSourceEnumNet source, int bitnumber_offset)

Sets the function/source of an digital output bit.

 void SetDigitalSource (DigitalTargetEnumNet digitaltarget, int32_t NrChannel, W2100DigitalSourceEnumNet source, int bitnumber offset)

Sets the function/source of an digital output bit.

 void SetDigitalSource (DigitalTargetEnumNet digitaltarget, int32_t NrChannel, SCUDigitalSourceEnumNet source, int bitnumber offset)

Sets the function/source of an digital output bit.

 void SetDigitalSource (DigitalTargetEnumNet digitaltarget, int32_t NrChannel, MEA2100_256DigitalSourceEnumNet source, int bitnumber_offset)

Sets the function/source of an digital output bit.

template<typename digitalsourceenum >

Sets the function/source of an digital output bit.

void GetDigitalSource (DigitalTargetEnumNet digitaltarget, int32_t NrChannel, [System::Runtime::Interop
 — Services::Out]DigitalSourceEnumNet% source, [System::Runtime::InteropServices::Out]int% bitnumber
 — offset)

Gets the function/source of an digital output bit.

void GetDigitalSource (DigitalTargetEnumNet digitaltarget, int32_t NrChannel, [System::Runtime::
 — InteropServices::Out]W2100DigitalSourceEnumNet% source, [System::Runtime::InteropServices::Out]int% bitnumber offset)

Gets the function/source of an digital output bit.

void GetDigitalSource (DigitalTargetEnumNet digitaltarget, int32_t NrChannel, [System::Runtime::
 — InteropServices::Out]SCUDigitalSourceEnumNet% source, [System::Runtime::InteropServices::Out]int% bitnumber_offset)

Gets the function/source of an digital output bit.

void GetDigitalSource (DigitalTargetEnumNet digitaltarget, int32_t NrChannel, [System::Runtime::Interop
 Services::Out]MEA2100_256DigitalSourceEnumNet% source, [System::Runtime::InteropServices::Out]int%
 bitnumber_offset)

Gets the function/source of an digital output bit.

template<typename digitalsourceenum >
 void GetDigitalSource (DigitalTargetEnumNet digitaltarget, int32_t NrChannel, [System::Runtime::Interop
 Services::Out]DigitalSource< digitalsourceenum >^% source, [System::Runtime::InteropServices::Out]int%
 bitnumber_offset)

Gets the function/source of an digital output bit.

virtual AdapterTypeEnumNet GetAdapterType ()

Gets the adapter which is connected to the MEA2100 device.

virtual MeaLayoutEnumNet GetMeaLayout ()

Gets the MEA layout which is connected to the MEA2100 device.

• virtual uint32_t GetAdcDataFormat (uint32_t virtualDevice)

Gets the ADC data format, 16 means 16 bits, 24 means 24 bits, 32 means 32 bits.

- virtual uint32_t GetAnalogValueUnit (uint32_t virtualDevice, DacqGroupChannelEnumNet group, [System← ::Runtime::InteropServices::Out] AnalogUnitEnumNet% unit)
- virtual uint32_t GetResolutionPerDigit (uint32_t virtualDevice, DacqGroupChannelEnumNet group, [System::Runtime::InteropServices::Out] int% res, [System::Runtime::InteropServices::Out] int% resUnit)
- virtual uint32_t GetAdcZero (uint32_t virtualDevice, DacqGroupChannelEnumNet group, [System::Runtime ← ::InteropServices::Out] int% adcz)
- virtual uint32_t GetHardwareMinRange (uint32_t virtualDevice, DacqGroupChannelEnumNet group, [System::Runtime::InteropServices::Out] int% r, [System::Runtime::InteropServices::Out] int% rUnit)
- virtual uint32_t GetHardwareMaxRange (uint32_t virtualDevice, DacqGroupChannelEnumNet group, [System::Runtime::InteropServices::Out] int% r, [System::Runtime::InteropServices::Out] int% rUnit)
- virtual uint32_t GetNumberOfDataBits (uint32_t virtualDevice, DacqGroupChannelEnumNet group, [System::Runtime::InteropServices::Out] int% numberOfBits)

Get the real number of data bits.

• virtual void SetSamplerate (int32_t rate, unsigned int oversample, unsigned int virtualDevice)

Sets the sampling frequency of the device.

virtual int32_t GetSamplerate (unsigned int virtualDevice)

Gets the sampling frequency of the device.

virtual uint32 t GetMaxSamplingFrequency (int virtualDevice)

Gets the maximal sampling frequency of the device.

virtual uint32_t GetMinSamplingFrequencyStepsize ()

Gets the minimal sampling frequency step size increment value of the device.

virtual int32_t GetChannelsInBlock (unsigned int virtualDevice)

Get the number of 16 bit datawords which will be collected per sample frame, use after the device is configured.

- virtual void SendStartDacq ()

Start sampling.

virtual void SendStartDacq (int VirtualDacqMap)

Start sampling

virtual void SendStartStgAndDacq (uint32_t trigger_map, int VirtualDacqMap)

Start sampling together with the STG.

virtual void SendStopDacq ()

Stop sampling.

virtual void SendStopDacq (int VirtualDacqMap)

Stop sampling.

Parameters

VirtualDacqMap

virtual void SendStopStgAndDacq (uint32_t trigger_map, int VirtualDacqMap)

Stop sampling together with the STG.

virtual void SendStopStgAndDacqWithOptions (uint32_t trigger_map, int VirtualDacqMap, int options)

Stop sampling together with the STG and options.

virtual void StartLoop ()

Start the data acquisition thread.

virtual void StartLoop (int32 t timeout)

Start the data acquisition thread.

virtual void StartLoop (int32_t timeout, int32_t numSubmittedUsbBuffers, int32_t numUsbBuffers, int32_← t packetsInUrb)

Start the data acquisition thread.

 virtual void StartLoop (int32_t timeout, int32_t numSubmittedUsbBuffers, int32_t numUsbBuffers, int32_← t packetsInUrb, uint32_t virtualDevice)

Start the data acquisition thread.

- virtual void StopLoop ()
- virtual void ClearBuffers ()
- virtual void StartDacq ()

Start the data acquisition thread and sampling.

virtual void StartDacq (int32 t timeout)

Start the data acquisition thread and sampling.

virtual void StartDacq (int32_t timeout, int32_t numSubmittedUsbBuffers, int32_t numUsbBuffers, int32_← t packetsInUrb)

Start the data acquisition thread and sampling.

virtual void StartDacq (int32_t timeout, int32_t numSubmittedUsbBuffers, int32_t numUsbBuffers, int32_←
t packetsInUrb, uint32_t virtualDevice)

Start the data acquisition thread and sampling.

virtual void StopDacq ()

Stop the data acquisition thread and sampling.

virtual void StopDacq (uint32_t virtualDevice)

Stop the data acquisition thread and sampling.

- virtual uint32 t SetPoti (uint32 t channel, uint32 t value, bool write nvram)
- virtual uint32_t GetPoti (uint32_t channel, [System::Runtime::InteropServices::Out]uint32_t% value)
- virtual CFilterPropertyNet ^ GetFilterProperty (DacqGroupChannelEnumNet GroupID, unsigned int index)
- virtual array< CFilterPropertyNet[^]> [^] CMcsUsbDacqNet::GetFilterProperties (DacqGroupChannelEnumNet GroupID)
- int GetChannelDataFillSize ()
- virtual void SetSelectedChannels (int nChannels, int queuesize, int threshold, SampleSizeNet samplesize, int ChannelsInBlock)

Create a FIFO queue per channel. Each channel will have its own FIFO and Callback function.

- virtual void SetSelectedChannels (int nChannels, int queuesize, int threshold, SampleSizeNet sampleDstSizeNet sampleDstSize, int ChannelsInBlock)
- virtual void SetSelectedChannels (array< bool >^ selectedChannels, int queuesize, int threshold, SampleSizeNet samplesize, int ChannelsInBlock)

Create a FIFO queue per channel. Each channel will have its own FIFO and Callback function.

- virtual void SetSelectedChannels (array< bool >^ selectedChannels, int queuesize, int threshold, SampleSizeNet sampleDstSizeNet sampleDstSize, int ChannelsInBlock)
- virtual void SetSelectedData (int nChannels, int queuesize, int threshold, SampleSizeNet samplesize, int ChannelsInBlock)

Create a common FIFO queue for all channels. Use handle = 0 in the ChannelBlock_ReadFrames... functions.

virtual void SetSelectedData (int nChannels, int queuesize, int threshold, SampleSizeNet sampleDstSizeNet sampleDstSize, int ChannelsInBlock)

virtual void SetSelectedData (array< bool >^ selectedChannels, int queuesize, int threshold, SampleSizeNet samplesize, int ChannelsInBlock)

Create a common FIFO queue for all channels. Use handle = 0 in the ChannelBlock_ReadFrames... functions.

- virtual void SetSelectedData (array< bool >^ selectedChannels, int queuesize, int threshold, SampleSizeNet sampleDstSizeNet sampl
- virtual int AddSelectedChannelsQueue (int nByteOffset, int nChannelOffset, int nChannels, int queuesize, int threshold, SampleSizeNet samplesize)

Adds a common FIFO queue for all channels. Data in callback will be a list per channel. Use ChannelBlock_Read← FramesDict... with handle = 0 to read the data.

- virtual int AddSelectedChannelsQueue (int nByteOffset, int nChannelOffset, int nChannels, int queuesize, int threshold, SampleSizeNet sampleDstSizeNet sample
- virtual int AddSelectedChannelsQueue (int nByteOffset, int nChannelOffset, array< bool >[∧] selected←
 Channels, int queuesize, int threshold, SampleSizeNet samplesize)

Adds a common FIFO queue for all channels. Data in callback will be a list per channel. Use ChannelBlock_Read← FramesDict... with handle = 0 to read the data.

- virtual int AddSelectedChannelsQueue (int nByteOffset, int nChannelOffset, array< bool >[^] selected←
 Channels, int queuesize, int threshold, SampleSizeNet sampleDstSizeNet sampleDstSizeNet
- virtual void SetSelectedChannelsQueue (int nChannels, int queuesize, int threshold, SampleSizeNet samplesize, int ChannelsInBlock)

Create a common FIFO queue for all channels. Data in callback will be a list per channel. Use ChannelBlock_← ReadFramesDict... with handle = 0 to read the data.

- virtual void SetSelectedChannelsQueue (int nChannels, int queuesize, int threshold, SampleSizeNet samplesize, SampleDstSizeNet sampleDstSize, int ChannelsInBlock)
- virtual void SetSelectedChannelsQueue (array< bool >^ selectedChannels, int queuesize, int threshold, SampleSizeNet samplesize, int ChannelsInBlock)

Create a common FIFO queue for all channels. Data in callback will be a list per channel. Use ChannelBlock_← ReadFramesDict... with handle = 0 to read the data.

- virtual void SetSelectedChannelsQueue (array< bool >^ selectedChannels, int queuesize, int threshold, SampleSizeNet sampleDstSizeNet sampleDstSizeNet sampleDstSize, int ChannelsInBlock)
- virtual uint32 t ChannelBlock AvailFrames (int handle)

Get the number of sample frames already available in the FIFO.

- virtual uint32_t ChannelBlock_AvailFrames (int handle, int queue)

Read data from a FIFO queue in uint16_t data format

• virtual void ChannelBlock_ReadFramesUI16 (int handle, array< uint16_t >^ buffer, int frames_pos, int frames, [System::Runtime::InteropServices::Out]int % frames_ret)

Read data from a FIFO queue in uint16_t data format

• virtual array< int16_t > ^ ChannelBlock_ReadFramesI16 (int handle, int frames, [System::Runtime:: InteropServices::Out]int % frames_ret)

Read data from a FIFO queue in int16_t data format

virtual void ChannelBlock_ReadFramesI16 (int handle, array< int16_t >^ buffer, int frames_pos, int frames,
 [System::Runtime::InteropServices::Out]int % frames_ret)

Read data from a FIFO queue in int16_t data format

Read data from a FIFO queue in uint32_t data format

• virtual void ChannelBlock_ReadFramesUI32 (int handle, array< uint32_t >^ buffer, int frames_pos, int frames, [System::Runtime::InteropServices::Out]int % frames ret)

Read data from a FIFO queue in uint32_t data format

virtual array< int32_t > ^ ChannelBlock_ReadFramesl32 (int handle, int frames, [System::Runtime::
 — InteropServices::Out]int % frames_ret)

Read data from a FIFO queue in uint32_t data format

virtual void ChannelBlock_ReadFramesl32 (int handle, array< int32_t >^ buffer, int frames_pos, int frames,
 [System::Runtime::InteropServices::Out]int % frames_ret)

Read data from a FIFO queue in uint32_t data format

• virtual array< array< uint16_t >^> ^ ChannelBlock_ReadAsFrameArrayUI16 (int handle, int frames, [System::Runtime::InteropServices::Out]int % frames_ret)

Read data from a FIFO queue as array of uint16_t data frame arrays

• virtual array< array< uint16_t >^> ^ ChannelBlock_ReadAsFrameArrayUI16 (int handle, int queue, int frames, [System::Runtime::InteropServices::Out]int % frames_ret)

Read data from a FIFO queue as array of uint16_t data frame arrays

virtual array< array< int16_t >^> ^ ChannelBlock_ReadAsFrameArrayl16 (int handle, int frames, [System← ::Runtime::InteropServices::Out]int % frames_ret)

Read data from a FIFO queue as array of uint16_t data frame arrays

• virtual array< array< int16_t >^> ^ ChannelBlock_ReadAsFrameArrayI16 (int handle, int queue, int frames, [System::Runtime::InteropServices::Out]int % frames_ret)

Read data from a FIFO queue as array of uint16_t data frame arrays

virtual array< array< uint32_t >^> ^ ChannelBlock_ReadAsFrameArrayUl32 (int handle, int frames, [System::Runtime::InteropServices::Out]int % frames ret)

Read data from a FIFO queue as array of uint16_t data frame arrays

virtual array< array< uint32_t >^> ^ ChannelBlock_ReadAsFrameArrayUI32 (int handle, int queue, int frames, [System::Runtime::InteropServices::Out]int % frames ret)

Read data from a FIFO queue as array of uint16_t data frame arrays

virtual array< array< int32_t>^> ^ ChannelBlock_ReadAsFrameArrayl32 (int handle, int frames, [System← ::Runtime::InteropServices::Out]int % frames_ret)

Read data from a FIFO queue as array of uint16_t data frame arrays

• virtual array< array< int32_t >^> ^ ChannelBlock_ReadAsFrameArrayl32 (int handle, int queue, int frames, [System::Runtime::InteropServices::Out]int % frames_ret)

Read data from a FIFO queue as array of uint16_t data frame arrays

• virtual System::Collections::Generic::Dictionary< int, array< uint16_t >^> ^ ChannelBlock_ReadFramesDictUI16 (int handle, int frames, [System::Runtime::InteropServices::Out]int % frames_ret)

Read data from a FIFO queue in uint16_t data format, that contains subqueues, each populates an entry in the dictionary by hardware channel number

virtual System::Collections::Generic::Dictionary< int, array< int16_t >^> ^ ChannelBlock_ReadFramesDictI16
 (int handle, int frames, [System::Runtime::InteropServices::Out]int % frames_ret)

Read data from a FIFO queue in int16_t data format, that contains subqueues, each populates an entry in the dictionary by hardware channel number

• virtual System::Collections::Generic::Dictionary< int, array< uint32_t >^> ^ ChannelBlock_ReadFramesDictUI32 (int handle, int frames, [System::Runtime::InteropServices::Out]int % frames ret)

Read data from a FIFO queue in uint32_t data format, that contains subqueues, each populates an entry in the dictionary by hardware channel number

virtual System::Collections::Generic::Dictionary< int, array< int32_t >^> ^ ChannelBlock_ReadFramesDictl32 (int handle, int frames, [System::Runtime::InteropServices::Out]int % frames_ret)

Read data from a FIFO queue in int32_t data format, that contains subqueues, each populates an entry in the dictionary by hardware channel number

• virtual System::Collections::Generic::Dictionary< int, array< uint16_t >^> ^ GetGroupChannelDataUI16 (DacqGroupChannelEnumNet group, int frames, [System::Runtime::InteropServices::Out]int % frames_ret)

Read data from a FIFO queue in uint16_t data format, that contains subqueues, each populates an entry in the dictionary by hardware channel number

 virtual System::Collections::Generic::Dictionary< int, array< int16_t >^> ^ GetGroupChannelDatal16 (DacqGroupChannelEnumNet group, int frames, [System::Runtime::InteropServices::Out]int % frames_ret)

Read data from a FIFO queue in int16_t data format, that contains subqueues, each populates an entry in the dictionary by hardware channel number

• virtual System::Collections::Generic::Dictionary< int, array< uint32_t >^> $^{\land}$ GetGroupChannelDataUl32 (DacqGroupChannelEnumNet group, int frames, [System::Runtime::InteropServices::Out]int % frames_ret)

Read data from a FIFO queue in uint32_t data format, that contains subqueues, each populates an entry in the dictionary by hardware channel number

• virtual System::Collections::Generic::Dictionary< int, array< int32_t >^> ^ GetGroupChannelDatal32 (DacqGroupChannelEnumNet group, int frames, [System::Runtime::InteropServices::Out]int % frames_ret)

Read data from a FIFO queue in int32_t data format, that contains subqueues, each populates an entry in the dictionary by hardware channel number

- void SetupGroupDacqQueue (int queuesize, int threshold)
- void SetupGroupDacqQueue (int queuesize, int threshold, unsigned int virtualDevice)
- CHWInfo ^ HWInfo ()

Static Public Attributes

- static const int Error_Callback_Queue_Full = 0x100
- static const int Error_Callback_Aquisition_Stopped = 0x200
- static const int Error Callback Packet Error = 1
- static const int Error Callback RingQueue Full = 3
- static const int Error Callback Frames Lost = 4
- static const int Error_Callback_Data_lost = 5

Properties

• virtual int Samplerate [get, set]

The sampling frequency of the device in Hz.

Events

- OnChannelData^ ChannelDataEvent [add, remove, raise]
- OnError Error Event [add, remove, raise]

Additional Inherited Members

11.49.1 Detailed Description

Base class for data acquisition devices.

11.49.2 Constructor & Destructor Documentation

```
11.49.2.1 CMcsUsbDacqNet() CMcsUsbDacqNet ( )
```

11.49.2.2 ~ CMcsUsbDacqNet() ~ CMcsUsbDacqNet ()

11.49.3 Member Function Documentation

11.49.3.1 AddSelectedChannelsQueue() [1/4] virtual int AddSelectedChannelsQueue (

```
int nByteOffset,
int nChannelOffset,
array< bool >^ selectedChannels,
int queuesize,
int threshold,
SampleSizeNet samplesize ) [virtual]
```

Adds a common FIFO queue for all channels. Data in callback will be a list per channel. Use ChannelBlock_Read ← FramesDict... with handle = 0 to read the data.

When using 32 bit data format, ChannelsInBlock is still the number of 16 bit channels per frame, as obtained from GetChannelsInBlock, while nChannels is the number of 32 bit channels to be read from the device. So when all channels from a device are read in 32 bit data format nChannels = ChannelsInBlock/2

Parameters

nByteOffset N	umber of bytes to start with.
---------------	-------------------------------

Parameters

nChannelOffset Number of channel to start with (counted in samplesize bytes).

Parameters

anlantadChannala	List of channels to be collected in the FIFO.
SelectedChannels	List of channels to be collected in the FIFO.

Parameters

anenesize	Size of sample frames the FIFO can hold.
900000120	Dize of sample frames the fine can floid.

thre	shold	Number of sample frames the FIF	O must acquire before the	callback function is called
unc	siioia	I Nullibel of Sallible Hallies the Life	O Illust acquire belore the	Camback full clieff is called.

plesize size of the datawords, either	er 16 or 32bit.
---------------------------------------	-----------------

Returns

The handle to the Queue.

11.49.3.2 AddSelectedChannelsQueue() [2/4] virtual int AddSelectedChannelsQueue (

```
int nByteOffset,
int nChannelOffset,
array< bool >^ selectedChannels,
int queuesize,
int threshold,
SampleSizeNet samplesize,
SampleDstSizeNet sampleDstSize ) [virtual]
```

11.49.3.3 AddSelectedChannelsQueue() [3/4] virtual int AddSelectedChannelsQueue (

```
int nByteOffset,
int nChannelOffset,
int nChannels,
int queuesize,
int threshold,
SampleSizeNet samplesize ) [virtual]
```

Adds a common FIFO queue for all channels. Data in callback will be a list per channel. Use ChannelBlock_Read ← FramesDict... with handle = 0 to read the data.

When using 32 bit data format, ChannelsInBlock is still the number of 16 bit channels per frame, as obtained from GetChannelsInBlock, while nChannels is the number of 32 bit channels to be read from the device. So when all channels from a device are read in 32 bit data format nChannels = ChannelsInBlock/2

Parameters

nByteOffset	Number of bytes to start with.
-------------	--------------------------------

nChannelOffset	Number of channel to start with (counted in samplesize bytes).
----------------	--

nChannels	Number of channels to be collected in the FIFO.
-----------	---

Parameters

queuesize	Size of sample frames the FIFO can hold.

Parameters

Parameters

samplesize	size of the datawords, either 16 or 32bit.
------------	--

Returns

The handle to the Queue.

11.49.3.4 AddSelectedChannelsQueue() [4/4] virtual int AddSelectedChannelsQueue (

```
int nByteOffset,
int nChannelOffset,
int nChannels,
int queuesize,
int threshold,
SampleSizeNet samplesize,
SampleDstSizeNet sampleDstSize) [virtual]
```

```
11.49.3.5 ChannelBlock_AvailFrames() [1/2] virtual uint32_t ChannelBlock_AvailFrames ( int handle ) [virtual]
```

Get the number of sample frames already available in the FIFO.

handle Handle of the FIFO queue. Either zero when the SetSelectedData call was used or the channel number.

Returns

Number of sample frames available in the FIFO.

```
11.49.3.6 ChannelBlock_AvailFrames() [2/2] virtual uint32_t ChannelBlock_AvailFrames (
    int handle,
    int queue ) [virtual]
```

Read data from a FIFO queue as array of uint16_t data frame arrays

Parameters

handle Handle of the FIFO queue. Zero when the SetSelectedData call was used.

Parameters

frames Number of sample frames to read.

Parameters

frames_ret Number of sample frames which were read, might be smaller than frames.

Returns

Array of int16_t frame arrays.

11.49.3.8 ChannelBlock_ReadAsFrameArrayI16() [2/2] virtual array<array<int16_t>^> ^ Channel↔ Block_ReadAsFrameArrayI16 (

```
int handle,
int queue,
int frames,
[System::Runtime::InteropServices::Out] int % frames_ret ) [virtual]
```

Read data from a FIFO queue as array of uint16_t data frame arrays

Parameters

Parameters

queue	Number of the sub queue.
frames	Number of sample frames to read.

Parameters

es_ret Number of sample frames which were read, might be smaller than frames.

Returns

Array of int16_t frame arrays.

Read data from a FIFO queue as array of uint16_t data frame arrays

handle	Handle of the FIFO queue. Zero when the SetSelectedData call was used.

Parameters

frames	Number of sample frames to read.
--------	----------------------------------

Parameters

frames_ret Number of sample frame	s which were read, might be smaller than frames.
-------------------------------------	--

Returns

Array of int32_t frame arrays.

11.49.3.10 ChannelBlock_ReadAsFrameArrayl32() [2/2] virtual array<array<int32_t>^> ^ Channel \leftarrow

```
Block_ReadAsFrameArrayI32 (
    int handle,
    int queue,
    int frames,
    [System::Runtime::InteropServices::Out] int % frames_ret ) [virtual]
```

Read data from a FIFO queue as array of uint16_t data frame arrays

Parameters

handle	Handle of the FIFO queue. Zero when the SetSelectedData call was used.
queue	Number of the sub queue.
frames	Number of sample frames to read.

Returns

Array of int32_t frame arrays.

Read data from a FIFO queue as array of uint16_t data frame arrays

Parameters

Parameters

frames Number of sample frames to re	ead.
--------------------------------------	------

Parameters

```
frames_ret | Number of sample frames which were read, might be smaller than frames.
```

Returns

Array of uint16_t frame arrays.

11.49.3.12 ChannelBlock_ReadAsFrameArrayUI16() [2/2] virtual array<array<uint16_t>^> ^ ChannelBlock_ReadAsFrameArrayUI16 (int handle, int queue, int frames, [System::Runtime::InteropServices::Out] int % frames_ret) [virtual]

Read data from a FIFO queue as array of uint16_t data frame arrays

handle	Handle of the FIFO queue. Zero when the SetSelectedData call was used.

Parameters

queue	Number of the sub queue.
frames	Number of sample frames to read.

Parameters

Returns

Array of uint16_t frame arrays.

11.49.3.13 ChannelBlock_ReadAsFrameArrayUl32() [1/2] virtual array<array<uint32_t>^> ^ ChannelBlock_ReadAsFrameArrayUI32 (int handle,

int frames,

[System::Runtime::InteropServices::Out] int % frames_ret) [virtual]

Read data from a FIFO queue as array of uint16_t data frame arrays

Parameters

handle	Handle of the FIFO queue. Zero when the SetSelectedData call was used.
--------	--

fra	mes	Number of sample frames to read.
-----	-----	----------------------------------

frames ret	Number of sample frames which were read, might be smaller than frames.

Returns

Array of uint32_t frame arrays.

$\textbf{11.49.3.14} \quad \textbf{ChannelBlock_ReadAsFrameArrayUl32() [2/2]} \quad \text{virtual array} < \text{array} < \text{uint} \\ 32_t > ^ > ^ > ^ > ^ > ^ < \text{constant}$

```
ChannelBlock_ReadAsFrameArrayUI32 (
    int handle,
    int queue,
    int frames,
    [System::Runtime::InteropServices::Out] int % frames_ret ) [virtual]
```

Read data from a FIFO queue as array of uint16_t data frame arrays

Parameters

	handle	Handle of the FIFO queue. Zero when the SetSelectedData call was used.	
--	--------	--	--

Parameters

queue	Number of the sub queue.
frames	Number of sample frames to read.

Parameters

frames_ret Number of sample frames which v	were read, might be smaller than frames.
--	--

Returns

Array of uint32_t frame arrays.

Read data from a FIFO queue in int16_t data format, that contains subqueues, each populates an entry in the dictionary by hardware channel number

Parameters

	handle	Handle of the FIFO queue. Zero when the SetSelectedChannelsQueue call was used.	
--	--------	---	--

Parameters

frames	Number of sample frames to read.
frames_ret	Number of sample frames which were read, might be smaller than frames.

Returns

Dictonary of int16_t arrays and hardware channel as key.

Read data from a FIFO queue in int32_t data format, that contains subqueues, each populates an entry in the dictionary by hardware channel number

Parameters

dChannelsQueue call was used.

frames	Number of sample frames to read.
frames_ret	Number of sample frames which were read, might be smaller than frames.

Returns

Dictonary of int32_t arrays and hardware channel as key.

Read data from a FIFO queue in uint16_t data format, that contains subqueues, each populates an entry in the dictionary by hardware channel number

Parameters

	handle	Handle of the FIFO queue. Zero when the SetSelectedChannelsQueue call was used.	
--	--------	---	--

Parameters

frames	Number of sample frames to read.
frames_ret	Number of sample frames which were read, might be smaller than frames.

Returns

Dictonary of uint16_t arrays and hardware channel as key.

Read data from a FIFO queue in uint32_t data format, that contains subqueues, each populates an entry in the dictionary by hardware channel number

I handle I handle of the fill of queue. Zelo when the detdeletted hannels queue can was used.	handle	Handle of the FIFO gueue. Zero when the SetSelectedChannelsQueue call was used.
---	--------	---

frames	Number of sample frames to read.
frames_ret	Number of sample frames which were read, might be smaller than frames.

Returns

Dictonary of uint32_t arrays and hardware channel as key.

```
11.49.3.19 ChannelBlock_ReadFramesI16() [1/2] virtual void ChannelBlock_ReadFramesI16 (
    int handle,
    array< int16_t >^ buffer,
    int frames_pos,
    int frames,
    [System::Runtime::InteropServices::Out] int % frames_ret ) [virtual]
```

Read data from a FIFO queue in int16_t data format

Parameters

Parameters

buffer	Buffer to put the data from the device in.
frames_pos	Position in buffer where to put the data.
frames	Number of sample frames to read.

	frames_ret	Number of sample frames which were read, might be smaller than frames.
--	------------	--

```
11.49.3.20 ChannelBlock_ReadFramesI16() [2/2] virtual array<int16_t> ^{\land} ChannelBlock_Read\leftarrow FramesI16 (
```

```
int handle,
int frames,
[System::Runtime::InteropServices::Out] int % frames_ret ) [virtual]
```

Read data from a FIFO queue in int16_t data format

Parameters

handle	Handle of the FIFO queue. Either zero when the SetSelectedData call was used or the channel number.
--------	---

Parameters

frames	Number of sample frames to read.
--------	----------------------------------

Parameters

frames_ret Number of sample frames which were read, might be	be smaller than frames.
--	-------------------------

```
11.49.3.21 ChannelBlock_ReadFramesI32() [1/2] virtual void ChannelBlock_ReadFramesI32 (
    int handle,
    array< int32_t >^ buffer,
    int frames_pos,
    int frames,
    [System::Runtime::InteropServices::Out] int % frames_ret ) [virtual]
```

Read data from a FIFO queue in uint32_t data format

Parameters

handle	Handle of the FIFO queue. Either zero when the SetSelectedData call was used or the channel number.
--------	---

buffer	Buffer to put the data from the device in.
frames_pos	Position in buffer where to put the data.
frames	Number of sample frames to read.

frames ret	Number of sample frames which were read, might be smaller than frames.

```
11.49.3.22 ChannelBlock_ReadFramesl32() [2/2] virtual array<int32_t> ^ ChannelBlock_Read←

FramesI32 (
    int handle,
    int frames,
    [System::Runtime::InteropServices::Out] int % frames_ret ) [virtual]
```

Read data from a FIFO queue in uint32_t data format

Parameters

handle Handle of the FIFO queue. Either zero when the SetSelectedData call was used or the channel number.

Parameters

frames Number of sample frames	to read.
--------------------------------	----------

Parameters

```
frames_ret Number of sample frames which were read, might be smaller than frames.
```

```
11.49.3.23 ChannelBlock_ReadFramesUl16() [1/2] virtual void ChannelBlock_ReadFramesUl16 (
    int handle,
    array< uint16_t >^ buffer,
    int frames_pos,
    int frames,
    [System::Runtime::InteropServices::Out] int % frames_ret ) [virtual]
```

Read data from a FIFO queue in uint16_t data format

handle	Handle of the FIFO queue. Either zero when the SetSelectedData call was used or the channel number.
buffer	Buffer to put the data from the device in.
frames_pos	Position in buffer where to put the data.
frames	Number of sample frames to read.

frames_ret Number of sample frames which were read, might be smaller than frames.

```
11.49.3.24 ChannelBlock_ReadFramesUl16() [2/2] virtual array<uint16_t> ^ ChannelBlock_Read←
FramesUI16 (
    int handle,
    int frames,
    [System::Runtime::InteropServices::Out] int % frames_ret ) [virtual]
```

Read data from a FIFO queue in uint16_t data format

Parameters

handle Handle of the FIFO queue. Either zero when the SetSelectedData call was used or the channel number.

Parameters

frames Number of sample frames to read.

Parameters

frames_ret Number of sample frames which were read, might be smaller than frames.

Returns

Array of data from the device.

11.49.3.25 ChannelBlock_ReadFramesUl32() [1/2] virtual void ChannelBlock_ReadFramesUI32 (int handle, array< uint32_t >^ buffer, int frames_pos, int frames,

[System::Runtime::InteropServices::Out] int % frames_ret) [virtual]

Read data from a FIFO queue in uint32_t data format

handle Handle of the FIFO queue. Either zero when the SetSelectedData call was used or the channel.

Parameters

buffer	Buffer to put the data from the device in.
frames_pos	Position in buffer where to put the data.
frames	Number of sample frames to read.

Parameters

	frames_ret	Number of sample frames which were read, might be smaller than frames.
--	------------	--

```
11.49.3.26 ChannelBlock_ReadFramesUl32() [2/2] virtual array<uint32_t> ^ ChannelBlock_Read←
FramesUl32 (
    int handle,
    int frames,
    [System::Runtime::InteropServices::Out] int % frames_ret ) [virtual]
```

Read data from a FIFO queue in uint32_t data format

Parameters

handle	Handle of the FIFO queue.	Either zero when the SetSelectedData call was used or the channel number.
--------	---------------------------	---

Parameters

Г	_	
	frames_ret	Number of sample frames which were read, might be smaller than frames.

```
11.49.3.27 ClearBuffers() virtual void ClearBuffers ( ) [virtual]
```

```
11.49.3.28 CMcsUsbDacqNet::GetFilterProperties() virtual array<CFilterPropertyNet^> ^ CMcs↔ UsbDacqNet::GetFilterProperties (

DacqGroupChannelEnumNet GroupID ) [virtual]
```

```
11.49.3.29 GetAdapterType() virtual AdapterTypeEnumNet GetAdapterType ( ) [virtual]
```

Gets the adapter which is connected to the MEA2100 device.

Returns

AdapterTypeEnumNet which enumerates the possible adapters.

```
11.49.3.30 GetAdcDataFormat() virtual uint32_t GetAdcDataFormat ( uint32_t virtualDevice ) [virtual]
```

Gets the ADC data format, 16 means 16 bits, 24 means 24 bits, 32 means 32 bits.

Returns

The data format in bits.

```
11.49.3.33 GetChannelDataFillSize() int GetChannelDataFillSize ( )
```

```
11.49.3.35 GetChannelsInBlock() virtual int32_t GetChannelsInBlock ( unsigned int virtualDevice ) [virtual]
```

Get the number of 16 bit datawords which will be collected per sample frame, use after the device is configured.

Returns

Number of 16 bit datawords per sample frame.

```
11.49.3.37 GetDataMode() virtual DataModeEnumNet GetDataMode ( unsigned int virtualDevice ) [virtual]
```

Gets the data mode, can be 16, 24 or 32bit, all signed or unsigned on the MEA2100 device.

Parameters

```
virtualDevice Virtual device to use.
```

Returns

DataModeEnumNet which enumerates the possible data modes.

```
11.49.3.38 GetDigitalSource() [1/5] void GetDigitalSource (

DigitalTargetEnumNet digitaltarget,
```

Gets the function/source of an digital output bit.

This is the templated generic implementation.

Parameters

digitaltarget	The digital target to query.
NrChannel	The channel/bit of target to query.
source	The source/function assignd to the digital target.
bitnumber_offset	An offset / bit number with the source/function.

Gets the function/source of an digital output bit.

This overload is for the MEA2100 device.

Parameters

digitaltarget	The digital target to query.
NrChannel	The channel/bit of target to query.
source	The source/function assignd to the digital target.
bitnumber_offset	An offset / bit number with the source/function.

Gets the function/source of an digital output bit.

This overload is for the MEA2100-256 device.

digitaltarget	The digital target to query.
NrChannel	The channel/bit of target to query.
source	The source/function assignd to the digital target.
bitnumber_offset	An offset / bit number with the source/function.

Gets the function/source of an digital output bit.

This overload is for the SCU device.

Parameters

digitaltarget	The digital target to query.
NrChannel	The channel/bit of target to query.
source	The source/function assignd to the digital target.
bitnumber_offset	An offset / bit number with the source/function.

Gets the function/source of an digital output bit.

This overload is for the W2100 device.

digitaltarget	The digital target to query.
NrChannel	The channel/bit of target to query.
source	The source/function assignd to the digital target.
bitnumber_offset	An offset / bit number with the source/function.

Read data from a FIFO queue in int16_t data format, that contains subqueues, each populates an entry in the dictionary by hardware channel number

Parameters

group	Group selector supported by the device.
-------	---

Parameters

frames	Number of sample frames to read.
frames_ret	Number of sample frames which were read, might be smaller than frames.

Returns

Dictonary of int16_t arrays and hardware channel as key.

Read data from a FIFO queue in int32_t data format, that contains subqueues, each populates an entry in the dictionary by hardware channel number

Parameters

group	Group selector supported by the device.

frames	Number of sample frames to read.
frames_ret	Number of sample frames which were read, might be smaller than frames.

Returns

Dictonary of int32_t arrays and hardware channel as key.

Read data from a FIFO queue in uint16_t data format, that contains subqueues, each populates an entry in the dictionary by hardware channel number

Parameters

Parameters

frames Number of sample frames to read.	
frames_ret	Number of sample frames which were read, might be smaller than frames.

Returns

Dictonary of uint16_t arrays and hardware channel as key.

Read data from a FIFO queue in uint32_t data format, that contains subqueues, each populates an entry in the dictionary by hardware channel number

frames	Number of sample frames to read.
frames_ret	Number of sample frames which were read, might be smaller than frames.

Returns

Dictonary of uint32_t arrays and hardware channel as key.

Gets the maximal sampling frequency of the device.

Returns

Sampling frequency in Hz.

```
11.49.3.52 GetMeaLayout() virtual MeaLayoutEnumNet GetMeaLayout () [virtual]
```

Gets the MEA layout which is connected to the MEA2100 device.

Returns

MeaLayoutEnumNet which enumerates the MEA types.

```
11.49.3.53 GetMinSamplingFrequencyStepsize() virtual uint32_t GetMinSamplingFrequencyStepsize ( ) [virtual]
```

Gets the minimal sampling frequency step size increment value of the device.

Returns

Sampling frequency step size in Hz.

Get the real number of data bits.

This value may be different from the value returned by GetDataFormat, e.g. in MC_Card the data are shifted 2 bits so the real number is 14 while the data format is 16 bits

Gets the sampling frequency of the device.

Returns

Sampling frequency in Hz.

```
11.49.3.58 GetVoltageRangeIndex() virtual uint32_t GetVoltageRangeIndex ( unsigned int virtualDevice ) [virtual]
```

Gets the currently selected voltage range on devices which support multiple voltage ranges.

Returns

The Voltage Range in uV.

```
11.49.3.60 GetVoltageRangeInMilliVolt() virtual int32_t GetVoltageRangeInMilliVolt ( ) [virtual]
```

Gets the currently selected voltage range on devices which support multiple voltage ranges.

Returns

The rounded Voltage Range in mV.

```
11.49.3.61 HWInfo() CHWInfo ^ HWInfo ( )
```

```
11.49.3.62 SendStartDacq() [1/2] virtual void SendStartDacq ( ) [virtual]
```

Start sampling.

```
11.49.3.63 SendStartDacq() [2/2] virtual void SendStartDacq ( int VirtualDacqMap ) [virtual]
```

Start sampling.

Parameters

VirtualDacqMap

Start sampling together with the STG.

trigger_map

VirtualDacqMap

11.49.3.65 SendStopDacq() [1/2] virtual void SendStopDacq () [virtual]

Stop sampling.

```
11.49.3.66 SendStopDacq() [2/2] virtual void SendStopDacq ( int VirtualDacqMap ) [virtual]
```

Stop sampling.

Parameters

VirtualDacqMap

Stop sampling together with the STG.

Parameters

trigger_map

Stop sampling together with the STG and options.

trigger_map

Parameters

options

Parameters

VirtualDacqMap

```
11.49.3.69 SetDataMode() virtual void SetDataMode (

DataModeEnumNet dataMode,

unsigned int virtualDevice ) [virtual]
```

Sets the data mode, can be 16, 24 or 32bit, all signed or unsigned on the MEA2100 device.

Parameters

dataMode	DataModeEnumNet enumerates the possible data modes.
virtualDevice	Virtual device to use.

Sets the function/source of an digital output bit.

This is the templated generic implementation.

digitaltarget	The digital target to change.
NrChannel	The channel/bit of target to change.
source	The source/function to assign to the digital target.
bitnumber_offset	An offset / bit number with the source/function.

Sets the function/source of an digital output bit.

This overload is for the MEA2100 device.

Parameters

digitaltarget	The digital target to change.
NrChannel	The channel/bit of target to change.
source	The source/function to assign to the digital target.
bitnumber_offset	An offset / bit number with the source/function.

Sets the function/source of an digital output bit.

This overload is for the MEA2100-256 device.

Parameters

digitaltarget	The digital target to change.
NrChannel	The channel/bit of target to change.
source	The source/function to assign to the digital target.
bitnumber_offset	An offset / bit number with the source/function.

Sets the function/source of an digital output bit.

This overload is for the SCU device.

digitaltarget	The digital target to change.
NrChannel	The channel/bit of target to change.
source	The source/function to assign to the digital target.
bitnumber_offset	An offset / bit number with the source/function.

Sets the function/source of an digital output bit.

This overload is for the W2100 device.

Parameters

digitaltarget	The digital target to change.
NrChannel	The channel/bit of target to change.
source	The source/function to assign to the digital target.
bitnumber_offset	An offset / bit number with the source/function.

Sets the sampling frequency of the device.

Parameters

```
rate Sampling frequency in Hz.
```

11.49.3.77 SetSelectedChannels() [1/4] virtual void SetSelectedChannels (

```
array< bool >^ selectedChannels,
int queuesize,
int threshold,
SampleSizeNet samplesize,
int ChannelsInBlock ) [virtual]
```

Create a FIFO queue per channel. Each channel will have its own FIFO and Callback function.

When using a 32bit sample size, the number obtained from GetChannelsInBlock must be devided by 2 to be used here, since GetChannelsInBlock returns the number of 16 bit datapoints per sample frame, while this functions uses the number of sample frames in its own data format.

Parameters

nannels to be collected in the FIFO.	selectedChannels Lis
--------------------------------------	----------------------

Parameters

Parameters

Parameters

samplesize	size of the datawords, either 16 or 32bit.

```
ChannelsInBlock value obtained from GetChannelsInBlock.
```

```
SampleDstSizeNet sampleDstSize,
int ChannelsInBlock ) [virtual]
```

11.49.3.79 SetSelectedChannels() [3/4] virtual void SetSelectedChannels (

```
int nChannels,
int queuesize,
int threshold,
SampleSizeNet samplesize,
int ChannelsInBlock ) [virtual]
```

Create a FIFO queue per channel. Each channel will have its own FIFO and Callback function.

When using a 32bit sample size, the number obtained from GetChannelsInBlock must be devided by 2 to be used here, since GetChannelsInBlock returns the number of 16 bit datapoints per sample frame, while this functions uses the number of sample frames in its own data format.

Parameters

mber of channels to be collected in th	ie FIFO.
--	----------

Parameters

	queuesize	Size of sample frames the FIFO can hold.
--	-----------	--

Parameters

Parameters

samplesize	size of the datawords, either 16 or 32bit.
ChannelsInBlock	value obtained from GetChannelsInBlock.

$\textbf{11.49.3.80} \quad \textbf{SetSelectedChannels()} \; \textbf{[4/4]} \quad \text{virtual void SetSelectedChannels} \; \; \textbf{(}$

```
int nChannels,
int queuesize,
int threshold,
```

```
SampleSizeNet samplesize,
SampleDstSizeNet sampleDstSize,
int ChannelsInBlock ) [virtual]
```

11.49.3.81 SetSelectedChannelsQueue() [1/4] virtual void SetSelectedChannelsQueue (

```
array< bool >^ selectedChannels,
int queuesize,
int threshold,
SampleSizeNet samplesize,
int ChannelsInBlock ) [virtual]
```

Create a common FIFO queue for all channels. Data in callback will be a list per channel. Use ChannelBlock_← ReadFramesDict... with handle = 0 to read the data.

When using 32 bit data format, ChannelsInBlock is still the number of 16 bit channels per frame, as obtained from GetChannelsInBlock, while nChannels is the number of 32 bit channels to be read from the device. So when all channels from a device are read in 32 bit data format nChannels = ChannelsInBlock/2

Parameters

selectedChannels	List of channels to be collected in the FIFO.
ociocica channolo	

Parameters

queuesize	Size of sample frames the FIFO can hold.
-----------	--

Parameters

threshold	Number of sample frames the FIFO must acquire before the callback function is called.
-----------	---

Parameters

samplesize	size of the datawords, either 16 or 32bit.
------------	--

ChannelsInBlock	value obtained from GetChannelsInBlock.
-----------------	---

11.49.3.82 SetSelectedChannelsQueue() [2/4] virtual void SetSelectedChannelsQueue (

```
array< bool >^ selectedChannels,
int queuesize,
int threshold,
SampleSizeNet samplesize,
SampleDstSizeNet sampleDstSize,
int ChannelsInBlock ) [virtual]
```

11.49.3.83 SetSelectedChannelsQueue() [3/4] virtual void SetSelectedChannelsQueue (

```
int nChannels,
int queuesize,
int threshold,
SampleSizeNet samplesize,
int ChannelsInBlock ) [virtual]
```

Create a common FIFO queue for all channels. Data in callback will be a list per channel. Use ChannelBlock_← ReadFramesDict... with handle = 0 to read the data.

When using 32 bit data format, ChannelsInBlock is still the number of 16 bit channels per frame, as obtained from GetChannelsInBlock, while nChannels is the number of 32 bit channels to be read from the device. So when all channels from a device are read in 32 bit data format nChannels = ChannelsInBlock/2

Parameters

nChannole	Number of channels to be collected in the FIFO.
HUHAHHUUS	Number of charmers to be confected in the FirO.

Parameters

queuesize Size of sample fra	mes the FIFO can hold.
------------------------------	------------------------

Parameters

threshold Number of sample frames the FIFO must acquire before the callba	ames the FIFO must acquire before the caliback funct	on is called.
---	--	---------------

samnlesize	size of the datawords, either 16 or 32bit.
Samplesize	i size oi the datawords, either to of szbit.

ChannelsInBlock	value obtained from GetChannelsInBlock.
-----------------	---

```
11.49.3.84 SetSelectedChannelsQueue() [4/4] virtual void SetSelectedChannelsQueue (
```

```
int nChannels,
int queuesize,
int threshold,
SampleSizeNet samplesize,
SampleDstSizeNet sampleDstSize,
int ChannelsInBlock ) [virtual]
```

11.49.3.85 SetSelectedData() [1/4] virtual void SetSelectedData (

```
array< bool >^ selectedChannels,
int queuesize,
int threshold,
SampleSizeNet samplesize,
int ChannelsInBlock ) [virtual]
```

Create a common FIFO queue for all channels. Use handle = 0 in the ChannelBlock_ReadFrames... functions.

When using 32 bit data format, ChannelsInBlock is still the number of 16 bit channels per frame, as obtained from GetChannelsInBlock, while nChannels is the number of 32 bit channels to be read from the device. So when all channels from a device are read in 32 bit data format nChannels = ChannelsInBlock/2

Parameters

colootedChannole	List of channels to be collected in the FIFO.
	TISLULGIANNES IO DE CONECIEU III NE FILO.

Parameters

queuesize	Size of sample frames the FIFO can hold.
940400120	oizo di dampio mamos mo i ii o dan noia.

samplesize	size of the datawords, either 16 or 32bit.
ChannelsInBlock	value obtained from GetChannelsInBlock.

int ChannelsInBlock) [virtual]

11.49.3.87 SetSelectedData() [3/4] virtual void SetSelectedData (
 int nChannels,
 int queuesize,
 int threshold,

SampleSizeNet samplesize,
int ChannelsInBlock) [virtual]

Create a common FIFO queue for all channels. Use handle = 0 in the ChannelBlock_ReadFrames... functions.

When using 32 bit data format, ChannelsInBlock is still the number of 16 bit channels per frame, as obtained from GetChannelsInBlock, while nChannels is the number of 32 bit channels to be read from the device. So when all channels from a device are read in 32 bit data format nChannels = ChannelsInBlock/2

Parameters

nCh.	annels	Number of channels to be collected in the FIFO.
------	--------	---

Parameters

queuesize	Size of sample frames the FIFO can hold.
-----------	--

Parameters

threshold Number of sample frames the FIFO must acquire before the callback function is called.

samplesize	size of the datawords, either 16 or 32bit.
ChannelsInBlock	value obtained from GetChannelsInBlock.

```
11.49.3.88 SetSelectedData() [4/4] virtual void SetSelectedData (
              int nChannels,
              int queuesize,
              int threshold,
              SampleSizeNet samplesize,
              SampleDstSizeNet sampleDstSize,
              int ChannelsInBlock ) [virtual]
\textbf{11.49.3.89} \quad \textbf{SetupGroupDacqQueue() [1/2]} \quad \texttt{void SetupGroupDacqQueue} \quad \textbf{(}
              int queuesize,
              int threshold )
11.49.3.90 SetupGroupDacqQueue() [2/2] void SetupGroupDacqQueue (
              int queuesize,
              int threshold,
              unsigned int virtualDevice )
11.49.3.91 SetVoltageRangeByIndex() virtual void SetVoltageRangeByIndex (
              int32_t voltageRangeIndex,
              unsigned int virtualDevice ) [virtual]
```

Sets the voltage range on devices which support multiple voltage ranges.

Parameters

voltageRangeIndex	Voltage Range to use as index, smaller values are larger voltage ranges.	

Sets the voltage range on devices which support multiple voltage ranges.

This replaces SetVoltageRange, where the value of the range was in mV!

```
11.49.3.93 StartDacq() [1/4] virtual void StartDacq ( ) [virtual]
```

Start the data acquisition thread and sampling.

```
11.49.3.94 StartDacq() [2/4] virtual void StartDacq ( int32_t timeout ) [virtual]
```

Start the data acquisition thread and sampling.

Parameters

```
timeout Timeout in ms.
```

Start the data acquisition thread and sampling.

Parameters

Parameters

packetsInUrb	Packets in each URB.
--------------	----------------------

Start the data acquisition thread and sampling.

Parameters

Parameters

Parameters

numUsbBuffers	Number of USB Buffers to use.
Hulliosobuliels	I NUITIDEL OF OOD DUITELS TO USE.

Parameters

packetsInUrb	Packets in each URB.
--------------	----------------------

virtualDaviaa	Virtual Davida to start
virtualDevice	Virtual Device to start.

```
11.49.3.97 StartLoop() [1/4] virtual void StartLoop ( ) [virtual]
```

Start the data acquisition thread.

```
11.49.3.98 StartLoop() [2/4] virtual void StartLoop ( int32_t timeout ) [virtual]
```

Start the data acquisition thread.

Parameters

timeout	Timeout in ms.
---------	----------------

```
11.49.3.99 StartLoop() [3/4] virtual void StartLoop() int32_t timeout, int32_t numSubmittedUsbBuffers, int32_t numUsbBuffers, int32_t packetsInUrb() [virtual]
```

Start the data acquisition thread.

Parameters

timeout	Timeout in ms.
---------	----------------

Parameters

numSubmittedUsbBuffers	Number of USB Buffers that are simultaniously submitted.
------------------------	--

	1
numl lshRuffers	Number of USB Buffers to use

packetsInUrb	Packets in each URB.
--------------	----------------------

Start the data acquisition thread.

Parameters

numSubmittedUsbBuffers	Number of USB Buffers that are simultaniously submitted.
------------------------	--

Parameters

Parameters

Parameters

```
11.49.3.101 StopDacq() [1/2] virtual void StopDacq ( ) [virtual]
```

Stop the data acquisition thread and sampling.

```
11.49.3.102 StopDacq() [2/2] virtual void StopDacq ( uint32_t virtualDevice ) [virtual]
```

Stop the data acquisition thread and sampling.

Parameters

virtualDevice	Virtual Device to start.
---------------	--------------------------

```
11.49.3.103 StopLoop() virtual void StopLoop ( ) [virtual]
```

11.49.4 Member Data Documentation

```
11.49.4.1 Error_Callback_Aquisition_Stopped const int Error_Callback_Aquisition_Stopped = 0x200 [static]
```

```
11.49.4.2 Error_Callback_Data_lost const int Error_Callback_Data_lost = 5 [static]
```

```
11.49.4.3 Error_Callback_Frames_Lost const int Error_Callback_Frames_Lost = 4 [static]
```

11.49.4.4 Error_Callback_Packet_Error const int Error_Callback_Packet_Error = 1 [static]

11.49.4.5 Error_Callback_Queue_Full const int Error_Callback_Queue_Full = 0x100 [static]

11.49.4.6 Error_Callback_RingQueue_Full const int Error_Callback_RingQueue_Full = 3 [static]

11.49.5 Property Documentation

11.49.5.1 Samplerate virtual int Samplerate [get], [set]

The sampling frequency of the device in Hz.

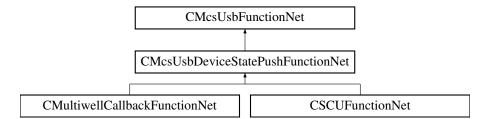
11.49.6 Event Documentation

11.49.6.1 ChannelDataEvent OnChannelData^ ChannelDataEvent [add], [remove], [raise]

11.49.6.2 ErrorEvent OnError^ ErrorEvent [add], [remove], [raise]

11.50 CMcsUsbDeviceStatePushFunctionNet Class Reference

Inheritance diagram for CMcsUsbDeviceStatePushFunctionNet:



Public Member Functions

• void TriggerStatus ()

Protected Member Functions

CMcsUsbDeviceStatePushFunctionNet (CMcsUsbNet[^] mcsusb, CMcsUsbFunctionPointerContainer[^] p

 Device)

Events

• OnMcsUsbDeviceState^ McsUsbDeviceStateEvent [add, remove, raise]

Additional Inherited Members

11.50.1 Constructor & Destructor Documentation

11.50.1.1 CMcsUsbDeviceStatePushFunctionNet() CMcsUsbDeviceStatePushFunctionNet (
CMcsUsbNet^ mcsusb,
CMcsUsbFunctionPointerContainer^ pDevice) [protected]

11.50.2 Member Function Documentation

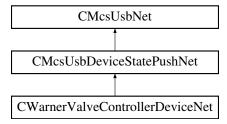
```
11.50.2.1 TriggerStatus() void TriggerStatus ( )
```

11.50.3 Event Documentation

11.50.3.1 McsUsbDeviceStateEvent OnMcsUsbDeviceState^ McsUsbDeviceStateEvent [add], [remove], [raise]

11.51 CMcsUsbDeviceStatePushNet Class Reference

Inheritance diagram for CMcsUsbDeviceStatePushNet:



Public Member Functions

void TriggerStatus ()

Protected Member Functions

CMcsUsbDeviceStatePushNet (CMcsUsbPointerContainer[^] pDevice)

Events

• OnMcsUsbDeviceState^ McsUsbDeviceStateEvent [add, remove, raise]

Additional Inherited Members

11.51.1 Constructor & Destructor Documentation

```
11.51.1.1 CMcsUsbDeviceStatePushNet() CMcsUsbDeviceStatePushNet (
CMcsUsbPointerContainer^ pDevice) [protected]
```

11.51.2 Member Function Documentation

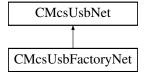
```
11.51.2.1 TriggerStatus() void TriggerStatus ()
```

11.51.3 Event Documentation

11.51.3.1 McsUsbDeviceStateEvent OnMcsUsbDeviceState^ McsUsbDeviceStateEvent [add], [remove], [raise]

11.52 CMcsUsbFactoryNet Class Reference

Inheritance diagram for CMcsUsbFactoryNet:



Public Member Functions

- · CMcsUsbFactoryNet ()
- ∼CMcsUsbFactoryNet ()
- unsigned int GetNumDestinations ()
- String \(^\) GetDestinationName (unsigned int index)
- String \(^\) GetDestinationName (CFirmwareDestinationNet dest)
- void SetDestinationSerialNumber (CFirmwareDestinationNet dest, String[^] serialnumber)
- String \(^\) GetDestinationSerialNumber (CFirmwareDestinationNet dest)
- CFirmwareDestinationNet GetDestination (unsigned int index)
- CFirmwareDestinationNet GetDestination (String[^] Key)
- unsigned int GetDestinationTargetAddress (CFirmwareDestinationNet destination)

Gets the target base address for the destination.

- uint32 t ChangeSerialNumber (String[^] serial)
- bool LoadUserFirmware (String[^] FirmwareFile, CMcsUsbListEntryNet[^] listEntry)

Send the DSP Firmware to the MEA21 device.

- bool LoadUserFirmware (String[^] FirmwareFile, CMcsUsbListEntryNet[^] listEntry, uint32_t LockMask)
- bool UpdateFirmware (String[^] FirmwareFile, CMcsUsbListEntryNet[^] listEntry, CFirmwareDestinationNet Dest, OnUpdateFirmwareStatusChange[^] deleg, OnUpdateFirmwareProgress[^] progress, bool SkipWait)

Flashes a firmware file to the device.

- bool UpdateFirmware (String[^] FirmwareFile, CMcsUsbListEntryNet[^] listEntry, CFirmwareDestinationNet Dest, OnUpdateFirmwareStatusChange[^] deleg, OnUpdateFirmwareProgress[^] progress, bool SkipWait, unsigned int LockMask)
- bool UpdateFirmware (String[^] FirmwareFile, CMcsUsbListEntryNet[^] listEntry, CFirmwareDestinationNet dest)

Flashes a firmware file to the device.

 bool UpdateFirmware (String[^] FirmwareFile, CMcsUsbListEntryNet[^] listEntry, CFirmwareDestinationNet dest, bool SkipWait)

Flashes a firmware file to the device.

- bool UpdateFirmware (String[^] FirmwareFile, CMcsUsbListEntryNet[^] listEntry, CFirmwareDestinationNet dest, bool SkipWait, uint32_t LockMask)
- bool CompareFirmware (String[^] FirmwareFile, CMcsUsbListEntryNet[^] listEntry, CFirmwareDestinationNet
 Dest, OnUpdateFirmwareStatusChange[^] deleg, OnUpdateFirmwareProgress[^] progress, String[^]
 MessagePrefix, unsigned int LockMask, [System::Runtime::InteropServices::Out] String[^]% ErrorText,
 [System::Runtime::InteropServices::Out] String[^]% Protokoll)
- uint32 t Coldstart (CFirmwareDestinationNet dest)
- int32 t GetXilinxFlashOffset (CFirmwareDestinationNet dest)
- uint32_t GetXilinxFlashReadCommand (CFirmwareDestinationNet dest)
- array< uint8 t > ^ DownloadFirmware (CFirmwareDestinationNet Dest, uint32 t Address, uint32 t length)
- bool GetUsercodeFromFlash (unsigned int FPGA, unsigned int Address, [System::Runtime::Interop
 — Services::Out] unsigned int% Usercode)
- array< unsigned char > ^ ReadBlockFromFlash (unsigned int FPGA, unsigned int Address)
- void ReadBlockFromFlash (unsigned int FPGA, unsigned int Address, array< unsigned char >^ buffer, int position)
- array< unsigned char > ^ ReadBlockFromIFBGlobalEEprom (unsigned int Address)
- array< unsigned char > ^ ReadBlockFromNVMEM (unsigned int FPGA, unsigned int Offset, unsigned int Address)

Static Public Member Functions

- static String ^ GetDestinationDisplayLabel (String^ RawLabel, CFirmwareDestinationNet dest)
- static String [^] FindFirmwareVersionMagicInBuffer (array< unsigned char > ^ buffer, int length, [System::← Runtime::InteropServices::Out]int% position)
- static bool GetFirmwareVersionFromFile (String[^] FirmwareFile, [System::Runtime::InteropServices::Out] uint32_t% Version)

Retrives version info from a Firmware update file.

- static bool GetFirmwareVersionFromFile (String^ FirmwareFile, [System::Runtime::InteropServices::Out] uint32 t% Version, [System::Runtime::InteropServices::Out] uint32 t% Position)
- static bool GetFirmwareVersionFromHexFile (String[^] FirmwareFile, [System::Runtime::InteropServices::Out] uint32_t% Version)
- static uint32_t GetChecksumFromFX3Image (String[^] FirmwareFile)
- static uint32_t GetUSBDeviceIDFromFX3Image (String^ FirmwareFile)
- static bool GetUsercodeFromBitFile (String[^] FirmwareFile, [System::Runtime::InteropServices::Out] unsigned int% Usercode)

Static Public Attributes

- static const uint32_t FX3MCSDataAddress = 0x40037E00
- static const uint32 t FX3MCSDataDeviceIdOffset = 0x4
- static const uint32 t FX3MCSDataVersionOffset = 0x8
- static const uint32_t FX3MCSDatalFB2ImageOffset = 0xC
- static const uint32_t FX3MCSDataIFB1ImageOffset = 0x2C

Additional Inherited Members

11.52.1 Constructor & Destructor Documentation

```
11.52.1.1 CMcsUsbFactoryNet() CMcsUsbFactoryNet ( )
```

```
11.52.1.2 ~CMcsUsbFactoryNet() ~CMcsUsbFactoryNet ()
```

11.52.2 Member Function Documentation

```
11.52.2.1 ChangeSerialNumber() uint32_t ChangeSerialNumber ( String^{\land} serial)
```

```
11.52.2.2 Coldstart() uint32_t Coldstart (
             CFirmwareDestinationNet dest )
11.52.2.3 CompareFirmware() bool CompareFirmware (
             String^ FirmwareFile,
             CMcsUsbListEntryNet^ listEntry,
             CFirmwareDestinationNet Dest,
             OnUpdateFirmwareStatusChange^ deleg,
             OnUpdateFirmwareProgress^ progress,
             String Message Prefix,
             unsigned int LockMask,
             [System::Runtime::InteropServices::Out] String^{\land}% ErrorText,
             [System::Runtime::InteropServices::Out] \ String^{\ } \ \textit{Protokoll} \ )
11.52.2.4 DownloadFirmware() array<uint8_t> ^ DownloadFirmware (
             CFirmwareDestinationNet Dest,
             uint32_t Address,
             uint32_t length )
11.52.2.5 FindFirmwareVersionMagicInBuffer() static String ^ FindFirmwareVersionMagicInBuffer (
             array< unsigned char >^{\wedge} buffer,
             int length,
             [System::Runtime::InteropServices::Out] int% position ) [static]
11.52.2.6 GetChecksumFromFX3Image() static uint32_t GetChecksumFromFX3Image (
             String<sup>∧</sup> FirmwareFile ) [static]
11.52.2.7 GetDestination() [1/2] CFirmwareDestinationNet GetDestination (
             String^ Key )
11.52.2.8 GetDestination() [2/2] CFirmwareDestinationNet GetDestination (
             unsigned int index)
11.52.2.9 GetDestinationDisplayLabel() static String ^ GetDestinationDisplayLabel (
             String^ RawLabel,
             CFirmwareDestinationNet dest ) [static]
```

```
11.52.2.10 GetDestinationName() [1/2] String ^ GetDestinationName (
              CFirmwareDestinationNet dest )
11.52.2.11 GetDestinationName() [2/2] String ^ GetDestinationName (
              unsigned int index )
11.52.2.12 GetDestinationSerialNumber() String ^ GetDestinationSerialNumber (
              CFirmwareDestinationNet dest )
11.52.2.13 GetDestinationTargetAddress() unsigned int GetDestinationTargetAddress (
              CFirmwareDestinationNet destination )
Gets the target base address for the destination.
Parameters
 destination
              The destination to be queried.
Returns
     The base address as a 32 bit number, only the lower 16 bit represent the address.
11.52.2.14 GetFirmwareVersionFromFile() [1/2] static bool GetFirmwareVersionFromFile (
              String^ FirmwareFile,
              [System::Runtime::InteropServices::Out] uint32_t% Version ) [static]
Retrives version info from a Firmware update file.
\textbf{11.52.2.15} \quad \textbf{GetFirmwareVersionFromFile() [2/2]} \quad \texttt{static bool GetFirmwareVersionFromFile ()} \\
              String^{\wedge} FirmwareFile,
              [System::Runtime::InteropServices::Out] uint32_t% Version,
              [System::Runtime::InteropServices::Out] uint32_t% Position ) [static]
11.52.2.16 GetFirmwareVersionFromHexFile() static bool GetFirmwareVersionFromHexFile (
              String^ FirmwareFile,
```

[System::Runtime::InteropServices::Out] uint32_t% Version) [static]

```
11.52.2.17 GetNumDestinations() unsigned int GetNumDestinations ()
11.52.2.18 GetUSBDeviceIDFromFX3Image() static uint32_t GetUSBDeviceIDFromFX3Image (
             String^{\wedge} FirmwareFile ) [static]
11.52.2.19 GetUsercodeFromBitFile() static bool GetUsercodeFromBitFile (
             String Firmware File,
             [System::Runtime::InteropServices::Out] unsigned int% Usercode ) [static]
11.52.2.20 GetUsercodeFromFlash() bool GetUsercodeFromFlash (
             unsigned int FPGA,
             unsigned int Address,
             [System::Runtime::InteropServices::Out] unsigned int% Usercode )
11.52.2.21 GetXilinxFlashOffset() int32_t GetXilinxFlashOffset (
             CFirmwareDestinationNet dest )
11.52.2.22 GetXilinxFlashReadCommand() uint32_t GetXilinxFlashReadCommand (
             CFirmwareDestinationNet dest )
11.52.2.23 LoadUserFirmware() [1/2] bool LoadUserFirmware (
             String^ FirmwareFile,
             CMcsUsbListEntryNet^ listEntry )
Send the DSP Firmware to the MEA21 device.
Parameters
 FirmwareFile
              Filename of the DSP Firmware (*.bin) file.
```

listEntry Device to use for the connection. See CMcsUsbListNet.

```
11.52.2.24 LoadUserFirmware() [2/2] bool LoadUserFirmware (
             String^{\wedge} FirmwareFile,
             CMcsUsbListEntryNet^ listEntry,
             uint32_t LockMask )
11.52.2.25 ReadBlockFromFlash() [1/2] array<unsigned char> ^ ReadBlockFromFlash (
             unsigned int FPGA,
             unsigned int Address )
11.52.2.26 ReadBlockFromFlash() [2/2] void ReadBlockFromFlash (
             unsigned int FPGA,
             unsigned int Address,
             array< unsigned char >^{\wedge} buffer,
             int position )
11.52.2.27 ReadBlockFromIFBGlobalEEprom() array<unsigned char> ^ ReadBlockFromIFBGlobal←
EEprom (
             unsigned int Address )
11.52.2.28 ReadBlockFromNVMEM() array<unsigned char> ^ ReadBlockFromNVMEM (
             unsigned int FPGA,
             unsigned int Offset,
             unsigned int Address )
11.52.2.29 SetDestinationSerialNumber() void SetDestinationSerialNumber (
             CFirmwareDestinationNet dest,
             String^{\wedge} serialnumber)
11.52.2.30 UpdateFirmware() [1/5] bool UpdateFirmware (
             String Firmware File,
             CMcsUsbListEntryNet<sup>∧</sup> listEntry,
             CFirmwareDestinationNet dest )
```

Flashes a firmware file to the device.

FirmwareFile Filename of the Firmware file.

Parameters

```
listEntry Device to use for the connection.
```

Flashes a firmware file to the device.

Parameters

FirmwareFile Filenar	ne of the Firmware file.
----------------------	--------------------------

```
listEntry | Device to use for the connection.
```

```
OnUpdateFirmwareStatusChange^ deleg,
OnUpdateFirmwareProgress^ progress,
bool SkipWait )
```

Flashes a firmware file to the device.

Parameters

```
FirmwareFile | Filename of the Firmware file.
```

11.52.3 Member Data Documentation

bool SkipWait,

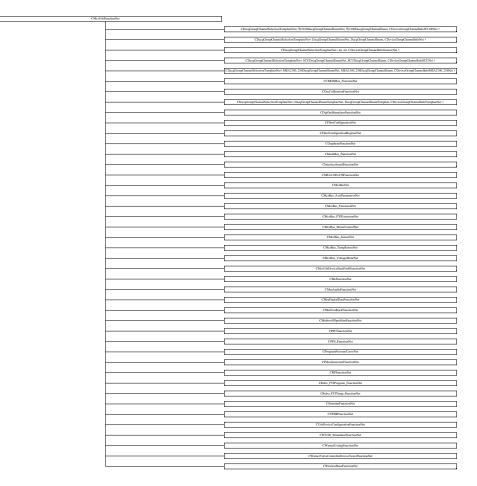
unsigned int LockMask)

```
11.52.3.1 FX3MCSDataAddress const uint32_t FX3MCSDataAddress = 0x40037E00 [static]
```

- 11.52.3.2 FX3MCSDataDeviceIdOffset const uint32_t FX3MCSDataDeviceIdOffset = 0x4 [static]
- 11.52.3.3 FX3MCSDataIFB1ImageOffset const uint32_t FX3MCSDataIFB1ImageOffset = 0x2C [static]
- 11.52.3.4 FX3MCSDataIFB2ImageOffset const uint32_t FX3MCSDataIFB2ImageOffset = 0xC [static]
- 11.52.3.5 FX3MCSDataVersionOffset const uint32_t FX3MCSDataVersionOffset = 0x8 [static]

11.53 CMcsUsbFunctionNet Class Reference

Inheritance diagram for CMcsUsbFunctionNet:



Public Member Functions

- CMcsUsbFunctionNet (CMcsUsbNet[^] mcsusb)
- virtual ~CMcsUsbFunctionNet (void)
- !CMcsUsbFunctionNet ()
- void ThrowCUsbExceptionNetOnError (uint32_t status)

Protected Member Functions

• CMcsUsbFunctionNet (CMcsUsbNet^ mcsusb, CMcsUsbFunctionPointerContainer^ mcsusbfunction)

Protected Attributes

- CMcsUsbNet ^ m_pMcsUsb
- CMcsUsbFunction * m_pMcsUsbFunction

11.53.1 Constructor & Destructor Documentation

```
11.53.1.1 CMcsUsbFunctionNet() [1/2] CMcsUsbFunctionNet (
             CMcsUsbNet^ mcsusb )
11.53.1.2 ~CMcsUsbFunctionNet() virtual ~CMcsUsbFunctionNet (
             void ) [virtual]
11.53.1.3 "!CMcsUsbFunctionNet() !CMcsUsbFunctionNet ( )
11.53.1.4 CMcsUsbFunctionNet() [2/2] CMcsUsbFunctionNet (
             CMcsUsbNet^ mcsusb,
             {\tt CMcsUsbFunctionPointerContainer}^{\land} \ {\tt \textit{mcsusbfunction}} \ ) \quad [\texttt{protected}]
11.53.2 Member Function Documentation
11.53.2.1 ThrowCUsbExceptionNetOnError() void ThrowCUsbExceptionNetOnError (
             uint32_t status )
11.53.3 Member Data Documentation
11.53.3.1 m_pMcsUsb CMcsUsbNet ^ m_pMcsUsb [protected]
11.53.3.2 m_pMcsUsbFunction CMcsUsbFunction* m_pMcsUsbFunction [protected]
11.54 CMcsUsbFunctionPointerContainer Class Reference
11.55 CMcsUsbListEntryNet Class Reference
```

McsUsbListEntryNet identifies a connected device.

Public Member Functions

- ∼CMcsUsbListEntryNet ()
- virtual bool Equals (Object[^] obj) override

Checks weather two CMcsUsbListEntryNet represent the same USB device.

void SetStringFormat (String ^ format)

Specify the text the CMcsUsbListEntryNet.ToString() function should return. The special code N expands to the device name and S expands to the serial number of the device.

virtual String \(^{\text{ToString}}\) override

Static Public Member Functions

static CMcsUsbListEntryNet ^ GetEntry ()

Returns one CMcsUsbListEntryNet from the list of USB Devices connected to the computer.

static CMcsUsbListEntryNet \(^\) GetEntry (DeviceEnumNet McsUsbDevice)

Returns one CMcsUsbListEntryNet from the list of USB Devices connected to the computer.

static CMcsUsbListEntryNet ^ GetEntry (DeviceEnumNet McsUsbDevice, unsigned int index)

Returns one CMcsUsbListEntryNet from the list of USB Devices connected to the computer.

static unsigned int GetEntryCount ()

Returns the number of devices connected to the computer.

static unsigned int GetEntryCount (DeviceEnumNet McsUsbDevice)

Returns the number of devices connected to the computer.

Properties

• String Manufacturer [get]

The Manufacturer ID of the device represented by this CMcsUsbListEntryNet.

String[^] Product [get]

The Product ID of the device represented by this CMcsUsbListEntryNet.

• String DeviceName [get]

The device name of the device represented by this CMcsUsbListEntryNet.

• String^ SerialNumber [get]

The serial number of the device represented by this CMcsUsbListEntryNet.

• String HwVersion [get]

The hardware revision of the device represented by this CMcsUsbListEntryNet.

DeviceIdNet[^] DeviceId [get]

11.55.1 Detailed Description

McsUsbListEntryNet identifies a connected device.

11.55.2 Constructor & Destructor Documentation

11.55.2.1 ~CMcsUsbListEntryNet() ~CMcsUsbListEntryNet ()

11.55.3 Member Function Documentation

Checks weather two CMcsUsbListEntryNet represent the same USB device.

obj The CMcsUsbListEntryNet to compare with.

```
11.55.3.2 GetEntry() [1/3] static CMcsUsbListEntryNet ^{\land} GetEntry ( ) [static]
```

Returns one CMcsUsbListEntryNet from the list of USB Devices connected to the computer.

Returns

A CMcsUsbListEntryNet to be used to connect to the device.

```
11.55.3.3 GetEntry() [2/3] static CMcsUsbListEntryNet ^ GetEntry (

DeviceEnumNet McsUsbDevice ) [static]
```

Returns one CMcsUsbListEntryNet from the list of USB Devices connected to the computer.

Parameters

```
McsUsbDevice | Specifies the type of devices to look for.
```

Returns

A CMcsUsbListEntryNet to be used to connect to the device.

```
11.55.3.4 GetEntry() [3/3] static CMcsUsbListEntryNet ^ GetEntry (

DeviceEnumNet McsUsbDevice,

unsigned int index ) [static]
```

Returns one CMcsUsbListEntryNet from the list of USB Devices connected to the computer.

Parameters

McsUsbDevice | Specifies the type of devices to look for.

Returns

A CMcsUsbListEntryNet to be used to connect to the device.

11.55.3.5 GetEntryCount() [1/2] static unsigned int GetEntryCount () [static]

Returns the number of devices connected to the computer.

Returns

The number of devices.

```
11.55.3.6 GetEntryCount() [2/2] static unsigned int GetEntryCount (

DeviceEnumNet McsUsbDevice ) [static]
```

Returns the number of devices connected to the computer.

Parameters

McsUsbDevice Specifies the type of devices to lo	ok for.
--	---------

Returns

The number of devices.

Specify the text the CMcsUsbListEntryNet.ToString() function should return. The special code N expands to the device name and S expands to the serial number of the device.

format A String containing the format template. Default is "%N (%S)".

```
11.55.3.8 ToString() virtual String ^{\wedge} ToString ( ) [override], [virtual]
```

11.55.4 Property Documentation

```
11.55.4.1 DeviceId DeviceIdNet^ DeviceId [get]
```

```
11.55.4.2 DeviceName String DeviceName [get]
```

The device name of the device represented by this CMcsUsbListEntryNet.

```
11.55.4.3 HwVersion String MwVersion [get]
```

The hardware revision of the device represented by this CMcsUsbListEntryNet.

```
11.55.4.4 Manufacturer String^ Manufacturer [get]
```

The Manufacturer ID of the device represented by this CMcsUsbListEntryNet.

```
11.55.4.5 Product String^ Product [get]
```

The Product ID of the device represented by this CMcsUsbListEntryNet.

```
11.55.4.6 SerialNumber String SerialNumber [get]
```

The serial number of the device represented by this CMcsUsbListEntryNet.

11.56 CMcsUsbListNet Class Reference

Class to handle a list of connected MCS USB devices.

Public Member Functions

CMcsUsbListNet (DeviceEnumNet McsUsbDevice)

Initializes a new instance of CMcsUsbListNet class.

CMcsUsbListNet (array< DeviceIdNet[^]>[^] DeviceIdList)

Initializes a new instance of CMcsUsbListNet class.

∼CMcsUsbListNet ()

Destructor: called by Dispose()

!CMcsUsbListNet ()

Finalizer: called by GC before collecting

void SetStringFormat (String ^ format)

Specify the text the CMcsUsbListEntryNet.ToString() function should return. The special code N expands to the device name and S expands to the serial number of the device.

• uint32 t GetNumberOfDevices ()

Gets the number of devices currently in the list.

CMcsUsbListEntryNet ^ GetUsbListEntry (unsigned int index)

Returns one CMcsUsbListEntryNet from the list of USB Devices connected to the computer.

array< CMcsUsbListEntryNet[^]> [^] GetUsbListEntries ()

Returns all entries from the list of USB Devices connected to the computer.

bool IsDeviceTypeOf (CMcsUsbListEntryNet[∧] entry, DeviceEnumNet McsUsbDevice)

Properties

• uint32 t Count [get]

Gets the number of devices currently in the list.

Events

- OnDeviceArrivalRemoval[^] DeviceArrival
- OnDeviceArrivalRemoval^ DeviceRemoval

11.56.1 Detailed Description

Class to handle a list of connected MCS USB devices.

11.56.2 Constructor & Destructor Documentation

```
11.56.2.1 CMcsUsbListNet() [1/2] CMcsUsbListNet (

DeviceEnumNet McsUsbDevice )
```

Initializes a new instance of CMcsUsbListNet class.

```
11.56.2.2 CMcsUsbListNet() [2/2] CMcsUsbListNet (

array< DeviceIdNet^>^ DeviceIdList )
```

Initializes a new instance of CMcsUsbListNet class.

```
11.56.2.3 ~CMcsUsbListNet() ~CMcsUsbListNet ()
```

Destructor: called by Dispose()

11.56.2.4 "!CMcsUsbListNet() !CMcsUsbListNet ()

Finalizer: called by GC before collecting

11.56.3 Member Function Documentation

11.56.3.1 GetNumberOfDevices() uint32_t GetNumberOfDevices ()

Gets the number of devices currently in the list.

Returns

The number of devices currently in the list.

```
11.56.3.2 GetUsbListEntries() array<CMcsUsbListEntryNet^> ^ GetUsbListEntries ( )
```

Returns all entries from the list of USB Devices connected to the computer.

```
11.56.3.3 GetUsbListEntry() CMcsUsbListEntryNet ^ GetUsbListEntry (
unsigned int index )
```

Returns one CMcsUsbListEntryNet from the list of USB Devices connected to the computer.

Parameters

index | number of the entry to use.

```
11.56.3.5 SetStringFormat() void SetStringFormat (
String ^ format )
```

Specify the text the CMcsUsbListEntryNet.ToString() function should return. The special code N expands to the device name and S expands to the serial number of the device.

Parameters

format	A String containing the format template. Default is "%N (%S)".
--------	--

11.56.4 Property Documentation

11.56.4.1 Count uint32_t Count [get]

Gets the number of devices currently in the list.

11.56.5 Event Documentation

11.56.5.1 DeviceArrival OnDeviceArrivalRemoval^ DeviceArrival

11.56.5.2 DeviceRemoval OnDeviceArrivalRemoval^ DeviceRemoval

11.57 CMcsUsbNet Class Reference

Base class to handle MCS USB devices. All device classes are derived from this class. Functionality that is provided by all MCS devices is handled by this class.

Inheritance diagram for CMcsUsbNet:



Public Member Functions

• CMcsUsbNet ()

Initializes a new instance of the base class to handle MCS USB devices.

CMcsUsbNet (McsBusTypeEnumNet bustype)

Initializes a new instance of the base class to handle MCS USB devices.

- virtual ∼CMcsUsbNet ()
- !CMcsUsbNet ()
- DeviceEnumNet GetDeviceEnum ()
- virtual uint32_t Connect ()

Opens a connection to the device.

virtual uint32_t Connect (unsigned int LockMask)

Opens a connection to the device.

virtual uint32_t Connect (CMcsUsbListEntryNet[^] entry)

Opens a connection to the device.

virtual uint32_t Connect (CMcsUsbListEntryNet[^] entry, unsigned int LockMask)

Opens a connection to the device.

- virtual uint32_t GetStatus ([System::Runtime::InteropServices::Out]uint32_t% iStatus)
- virtual bool IsConnected ()

Check if a device is Connected.

virtual void Disconnect ()

Disconnect from a device.

- CMcsUsbListEntryNet ^ GetUsbListEntry ()
- virtual String ^ GetSerialNumber ()

Query the Serial Number of the device.

- DriverVersionNet ^ GetVersion ()
- DriverVersionNet [^] GetVersion (CFirmwareDestinationNet dest)
- DeviceIdNet ^ GetDeviceId ()
- uint32 t GetIdent ([System::Runtime::InteropServices::Out]String^% Answer)
- void MultibootSelectImage (unsigned int sector)

Select the multiboot image specified by "sector" (range: 0..2) for IFB FPGA.

String \(^\) MultibootGetImageId (unsigned int sector)

Query the multiboot image id of the device located in specified sector (range: 0..2 / 0..9) of IFB1 / IFB2 FPGA.

uint32 t MultibootGetCypressImageId (unsigned int sector)

Query the multiboot image id of the device located in specified sector (range: 0..9 0..9) of IFB2 Cypress.

uint32 t MultibootGetSelectedImage ()

Gets sector index of selected FPGA boot image on IFB

uint32_t GetMea21UsbPort ()

Gets the USB port if an IFB that is used by this connection

HeadstageIdEnumNet GetHeadstageID (uint32_t headstage)

Gets the ID of a connected headstage.

bool GetHeadstagePresent (uint32_t headstage)

queries whether a headstage is present

• bool GetHeadstageActive (uint32_t headstage)

queries whether a headstage is active

• void RescanHeadstage (uint32_t headstage)

rescans and activates a headstage

- array< BYTE > ^ GetSoftwareKey (unsigned int index)
- void SetSoftwareKey (unsigned int index, array< BYTE >^ buffer)
- void RemoveSoftwareKey (unsigned int index)
- void AddSoftwareKey (String[^] key)
- bool EmptyKey (String[^] key)
- bool ValidKey (String[^] key, [System::Runtime::InteropServices::Out]String[^]% serial number)
- bool HasSoftwareKey (uint8_t ProgrammID, uint8_t majorversion)
- bool HasSoftwareKey (SoftwareKeyProgrammIdsNet::ProgrammIdsNet ProgrammID, uint8 t majorversion)
- String \(^\) GetSoftwareKeyString (uint8_t ProgrammID, uint8_t majorversion)
- String [^] GetSoftwareKeyString (SoftwareKeyProgrammIdsNet::ProgrammIdsNet ProgrammID, uint8_t majorversion)
- bool IsDeviceHighSpeedCapable ()
- bool IsDeviceHighSpeed ()
- McsUsbSpeedEnumNet GetDeviceCapableSpeed ()
- McsUsbSpeedEnumNet GetDeviceSpeed ()

Query the Connection Speed of the device.

- unsigned int TxnTestMemoryWrite (unsigned short index)
- unsigned int TxnTestMemoryReadAndCheck (unsigned short index)
- void TxnSetSerialNumber (unsigned int number)
- unsigned int TxnGetSerialNumber ()
- unsigned int ReadRegister (unsigned int reg)

- array< uint32 t > ^ ReadRegister (unsigned int reg, int length)
- unsigned int ReadRegister32 (unsigned int adr)
- · unsigned int ReadRegisterTimeSlot (unsigned int reg, int TimeSlot)
- void WriteRegister (unsigned int reg, unsigned int value)
- void WriteRegisterValue (unsigned int reg, unsigned int value)
- void WriteRegister32 (unsigned int adr, unsigned int value)
- void WriteRegister (unsigned int reg, array< unsigned int >^ values)
- void WriteRegisterArray (unsigned int reg, array< unsigned int >[∧] values)
- · void WriteRegisterTimeSlot (unsigned int reg, unsigned int value, int TimeSlot)
- void WriteRegisterTimeSlot (unsigned int reg, array< unsigned int >^ values, int TimeSlot)
- bool ReadEepromRegisterPreconfig (uint32_t EEPROMBase, uint32_t DMA_reg, [System::Runtime::
 —
 InteropServices::Out]uint32_t% DMA_value)
- bool ReadEepromRegisterPreconfig (uint32_t EEPROMBase, uint32_t DMA_reg, [System::Runtime::
 —
 InteropServices::Out]uint32_t% DMA_value, uint32_t EEPROMSize)
- bool ReadEepromRegisterPreconfig (uint32_t EEPROMBase, uint32_t DMA_reg, [System::Runtime::
 —
 InteropServices::Out]uint32 t% DMA value, uint32 t EEPROMSize, uint32 t EepromStartAddress)
- void WriteEepromRegisterPreconfig (uint32_t EEPROMBase, uint32_t DMA_reg, uint32_t DMA_value)
- void WriteEepromRegisterPreconfig (uint32_t EEPROMBase, uint32_t DMA_reg, uint32_t DMA_value, uint32_t EEPROMSize)
- void WriteEepromRegisterPreconfig (uint32_t EEPROMBase, uint32_t DMA_reg, uint32_t DMA_value, uint32_t EEPROMSize, uint32_t EepromStartAddress)
- void EraseEepromRegisterPreconfig (uint32_t EEPROMBase, uint32_t DMA_reg)
- void EraseEepromRegisterPreconfig (uint32 t EEPROMBase, uint32 t DMA reg, uint32 t EEPROMSize)
- void EraseEepromRegisterPreconfig (uint32_t EEPROMBase, uint32_t DMA_reg, uint32_t EEPROMSize, uint32_t EepromStartAddress)
- unsigned int GetLastUSBError ()
- void ThrowCUsbExceptionNetOnError (uint32_t status)
- bool GetDeviceCannotStallOutRequests ()
- String ^ GetHardwareRevision ()
- unsigned int GetFirmwareVersion (CFirmwareDestinationNet destination)

Gets the firmware version for the destination.

- uint8 t GetNumConfigurations ()
- uint8_t GetConfiguration ()
- void SetConfiguration (uint8 t config)
- uint32 t GetDeviceRootHubVendorID ()

Gets the Vendor ID of the USB root hub the device is connected to.

• UsbVendorIdEnumNet GetDeviceRootHubVendorEnum ()

Gets the Vendor ID of the USB root hub the device is connected to.

String \(^\) GetDeviceRootHubVendorName ()

Gets the Vendor Name of the USB root hub the device is connected to.

void EnableExceptions (bool enable)

Enables or Disables Exceptions for calls to McsUsb Devices. If Exceptions are disabled, the return value of a command can be queries with the GetStatusOfLastCommand call instead.

- bool IsExceptionsEnabled ()
- uint32 t GetStatusOfLastCommand ()

Gets the status of the last call to the McsUsb Library.

- uint32 t CyclePort ()
- void AssociateToThis (CMcsUsbNet[^] device)

Static Public Member Functions

static String \(^\) GetErrorText (unsigned int Status)

Gets the error text string that belongs to a status number.

Static Public Attributes

```
static const uint32_t Status_Crc = (0xE0100001L)
• static const uint32_t Status_Btstuff = (0xE0100002L)

    static const uint32 t Status DataToggleMismatch = (0xE0100003L)

• static const uint32 t Status Stall = (0xE0100004L)

    static const uint32 t Status DevNotResponding = (0xE0100005L)

• static const uint32 t Status PidCheckFailure = (0xE0100006L)

    static const uint32 t Status UnexpectedPid = (0xE0100007L)

    static const uint32 t Status DataOverrun = (0xE0100008L)

    static const uint32_t Status_DataUnderrun = (0xE0100009L)

    static const uint32 t Status BufferOverrun = (0xE010000CL)

    static const uint32 t Status BufferUnderrun = (0xE010000DL)

• static const uint32_t Status_NotAccessed = (0xE010000FL)

    static const uint32_t Status_Fifo = (0xE0100010L)

    static const uint32 t Status EndpointHalted = (0xE0100030L)

    static const uint32 t Status NoMemory = (0xE0100100L)

    static const uint32_t Status_InvalidUrbFunction = (0xE0100200L)

• static const uint32 t Status InvalidParameter = (0xE0100300L)
• static const uint32 t Status InvalidDeviceHandle = (0xE0100013L)
• static const uint32 t Status InvalidHandle = (0xE0100012L)

    static const uint32 t Status ErrorBusy = (0xE0100400L)

    static const uint32 t Status RequestFailed = (0xE0100500L)

• static const uint32_t Status_InvalidPipeHandle = (0xE0100600L)
• static const uint32 t Status NoBandwidth = (0xE0100700L)
• static const uint32 t Status InternalHcError = (0xE0100800L)
• static const uint32 t Status ErrorShortTransfer = (0xE0100900L)

    static const uint32 t Status BadStartFrame = (0xE0100A00L)

    static const uint32_t Status_IsochRequestFailed = (0xE0100B00L)

• static const uint32 t Status FrameControlOwned = (0xE0100C00L)
• static const uint32_t Status_ControlNotOwned = (0xE0100D00L)
• static const uint32 t Status Canceled = (0xE0110000L)

    static const uint32 t Status Canceling = (0xE0120000L)

    static const uint32 t Status AlreadyConfigured = (0xE0110001L)

    static const uint32 t Status Unconfigured = (0xE0110002L)

    static const uint32_t Status_NoSuchDevice = (0xE01F0002L)

    static const uint32 t Status DeviceNotFound = (0xE01F0003L)

    static const uint32 t Status NotSupported = (0xE01F0005L)

• static const uint32 t Status loPending = (0xE01F0006L)

    static const uint32_t Status_IoTimeout = (0xE01F0007L)

• static const uint32 t Status DeviceRemoved = (0xE01F0008L)
• static const uint32 t Status PipeNotLinked = (0xE01F0009L)

    static const uint32 t Status ConnectedPipes = (0xE01F000AL)

    static const uint32_t Status_DeviceLocked = (0xE01F0010L)

• static const uint32 t Status RequestMutexTimeout = (0xE01F0020L)

    static const uint32 t Status RequestMutexFailed = (0xE01F0021L)

• static const uint32_t Status_LastUsbErrorMismatch = (0xE01F0022L)

    static const uint32 t WPAError ScanningIsPending = ( (0xA0220000L) | 0x0036 )
```

Properties

• virtual String Serial Number [get]

11.57.1 Detailed Description

Base class to handle MCS USB devices. All device classes are derived from this class. Functionality that is provided by all MCS devices is handled by this class.

11.57.2 Constructor & Destructor Documentation

```
11.57.2.1 CMcsUsbNet() [1/2] CMcsUsbNet ( )
```

Initializes a new instance of the base class to handle MCS USB devices.

Initializes a new instance of the base class to handle MCS USB devices.

Parameters

bustype	Type of device to use, either USB or PCI.
---------	---

```
11.57.2.3 \sim CMcsUsbNet() virtual \sim CMcsUsbNet () [virtual]
```

```
11.57.2.4 "!CMcsUsbNet() !CMcsUsbNet ()
```

11.57.3 Member Function Documentation

```
11.57.3.1 AddSoftwareKey() void AddSoftwareKey ( String^{\land} key )
```

```
11.57.3.2 AssociateToThis() void AssociateToThis ( CMcsUsbNet^ device )
```

```
11.57.3.3 Connect() [1/4] virtual uint32_t Connect ( ) [virtual]
```

Opens a connection to the device.

Returns

Error Status. 0 on success.

```
11.57.3.4 Connect() [2/4] virtual uint32_t Connect (
CMcsUsbListEntryNet^ entry ) [virtual]
```

Opens a connection to the device.

Parameters

entry The Device List Entry for the device to be	e connected.
--	--------------

Returns

Error Status. 0 on success.

Opens a connection to the device.

Parameters

entry	The Device List Entry for the device to be connected.	
LockMask	The Lock Mask for this connection.	

Returns

Error Status. 0 on success.

Opens a connection to the device.

Parameters

LockMask	The Lock Mask for this connection.
----------	------------------------------------

Returns

Error Status. 0 on success.

```
11.57.3.7 CyclePort() uint32_t CyclePort ()
```

```
11.57.3.8 Disconnect() virtual void Disconnect ( ) [virtual]
```

Disconnect from a device.

```
11.57.3.9 EmptyKey() bool EmptyKey ( String^{\wedge} key )
```

```
11.57.3.10 EnableExceptions() void EnableExceptions (
bool enable)
```

Enables or Disables Exceptions for calls to McsUsb Devices. If Exceptions are disabled, the return value of a command can be queries with the GetStatusOfLastCommand call instead.

Parameters

```
enable | True to enable Exceptions, False to disable.
```

```
11.57.3.11 EraseEepromRegisterPreconfig() [1/3] void EraseEepromRegisterPreconfig ( uint32_t EEPROMBase, uint32_t DMA_reg )
```

$\textbf{11.57.3.12} \quad \textbf{EraseEepromRegisterPreconfig() [2/3]} \quad \text{void EraseEepromRegisterPreconfig (}$

```
uint32_t EEPROMBase,
uint32_t DMA_reg,
uint32_t EEPROMSize )
```

```
11.57.3.13 EraseEepromRegisterPreconfig() [3/3] void EraseEepromRegisterPreconfig (
             uint32_t EEPROMBase,
             uint32_t DMA_reg,
             uint32_t EEPROMSize,
             uint32_t EepromStartAddress )
11.57.3.14 GetConfiguration() uint8_t GetConfiguration ( )
11.57.3.15 GetDeviceCannotStallOutRequests() bool GetDeviceCannotStallOutRequests ( )
11.57.3.16 GetDeviceCapableSpeed() McsUsbSpeedEnumNet GetDeviceCapableSpeed ( )
11.57.3.17 GetDeviceEnum() DeviceEnumNet GetDeviceEnum ( )
11.57.3.18 GetDeviceId() DeviceIdNet ^ GetDeviceId ( )
11.57.3.19 GetDeviceRootHubVendorEnum() UsbVendorIdEnumNet GetDeviceRootHubVendorEnum ( )
Gets the Vendor ID of the USB root hub the device is connected to.
Returns
     An enum which enumerates the PCI Vendor ID.
11.57.3.20 GetDeviceRootHubVendorID() uint32_t GetDeviceRootHubVendorID ( )
Gets the Vendor ID of the USB root hub the device is connected to.
Returns
```

The PCI Vendor ID, 0x8086 for Intel, 0x1912 for Renesas, 0x1b21 for ASMedia.

11.57.3.21 GetDeviceRootHubVendorName() String ^ GetDeviceRootHubVendorName ()

Gets the Vendor Name of the USB root hub the device is connected to.

Returns

The PCI Vendor Name, either "Intel", "Renesas", "ASMedia" or "unknown".

11.57.3.22 GetDeviceSpeed() McsUsbSpeedEnumNet GetDeviceSpeed ()

Query the Connection Speed of the device.

Returns

0 for Low-Speed, 1 for Full-Speed, 2 for High-Speed and 3 for SuperSpeed.

Gets the error text string that belongs to a status number.

Parameters

Status	The status number you want the text for.
--------	--

Returns

The error text string that belongs to the status number.

11.57.3.24 **GetFirmwareVersion()** unsigned int GetFirmwareVersion (CFirmwareDestinationNet destination)

Gets the firmware version for the destination.

Parameters

destination	The destination to be queried.

Returns

The firmware version as a 32 bit number, the upper 16 bit contain the majaor version number, the lower 16 bit the minor version number.

```
11.57.3.25 GetHardwareRevision() String ^{\wedge} GetHardwareRevision ( )
```

```
11.57.3.26 GetHeadstageActive() bool GetHeadstageActive ( uint32_t headstage )
```

queries whether a headstage is active

Parameters

in	headstage	the headstage number (0 or 1)
----	-----------	-------------------------------

Returns

true if the headstage is active

11.57.3.27 **GetHeadstagelD()** HeadstageIdEnumNet GetHeadstageID (uint32_t headstage)

Gets the ID of a connected headstage.

Parameters

in headstage the headstage numb	er (0 or 1)
---------------------------------	-------------

Returns

enumerated Headstage ID

11.57.3.28 GetHeadstagePresent() bool GetHeadstagePresent (uint32_t headstage)

queries whether a headstage is present

Parameters

in	headstage	the headstage number (0 or 1)

Returns

true if the headstage is present

```
11.57.3.29 GetIdent() uint32_t GetIdent (
              [System::Runtime::InteropServices::Out] String^% Answer )
11.57.3.30 GetLastUSBError() unsigned int GetLastUSBError ()
11.57.3.31 GetMea21UsbPort() uint32_t GetMea21UsbPort ()
Gets the USB port if an IFB that is used by this connection
Returns
     number of used port; range: 0..1
11.57.3.32 GetNumConfigurations() uint8_t GetNumConfigurations ( )
11.57.3.33 GetSerialNumber() virtual String ^ GetSerialNumber ( ) [virtual]
Query the Serial Number of the device.
Returns
     The Serial Number.
11.57.3.34 GetSoftwareKey() array<BYTE> ^ GetSoftwareKey (
              unsigned int index)
11.57.3.35 GetSoftwareKeyString() [1/2] String ^{\land} GetSoftwareKeyString (
              {\tt Software Key ProgrammIds Net::} {\tt ProgrammIds Net} \ \textit{ProgrammID,} \\
              uint8_t majorversion )
11.57.3.36 GetSoftwareKeyString() [2/2] String ^{\wedge} GetSoftwareKeyString (
              uint8_t ProgrammID,
              uint8_t majorversion )
```

Returns

true if the device is connected.

```
11.57.3.37 GetStatus() virtual uint32_t GetStatus (
             [System::Runtime::InteropServices::Out] uint32_t% iStatus ) [virtual]
11.57.3.38 GetStatusOfLastCommand() uint32_t GetStatusOfLastCommand ()
Gets the status of the last call to the McsUsb Library.
Returns
     The Error Status of the last McsUsb command. 0 on success.
11.57.3.39 GetUsbListEntry() CMcsUsbListEntryNet ^ GetUsbListEntry ( )
11.57.3.40 GetVersion() [1/2] DriverVersionNet ^ GetVersion ( )
11.57.3.41 GetVersion() [2/2] DriverVersionNet ^ GetVersion (
             CFirmwareDestinationNet dest )
11.57.3.42 HasSoftwareKey() [1/2] bool HasSoftwareKey (
             SoftwareKeyProgrammIdsNet::ProgrammIdsNet ProgrammID,
             uint8_t majorversion )
11.57.3.43 HasSoftwareKey() [2/2] bool HasSoftwareKey (
             uint8_t ProgrammID,
             uint8_t majorversion )
11.57.3.44 IsConnected() virtual bool IsConnected ( ) [virtual]
Check if a device is Connected.
```

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```
11.57.3.45 IsDeviceHighSpeed() bool IsDeviceHighSpeed ( )
```

```
11.57.3.46 IsDeviceHighSpeedCapable() bool IsDeviceHighSpeedCapable ( )
```

```
11.57.3.48 MultibootGetCypressImageId() uint32_t MultibootGetCypressImageId ( unsigned int sector )
```

Query the multiboot image id of the device located in specified sector (range: 0..9 0..9) of IFB2 Cypress.

Returns

The magic ident code of the image.

```
11.57.3.49 MultibootGetImageId() String ^ MultibootGetImageId ( unsigned int sector )
```

Query the multiboot image id of the device located in specified sector (range: 0..2 / 0..9) of IFB1 / IFB2 FPGA.

Returns

The magic ident code of the image.

```
11.57.3.50 MultibootGetSelectedImage() uint32_t MultibootGetSelectedImage ()
```

Gets sector index of selected FPGA boot image on IFB

Returns

Sector index of image; range: 0..2

```
11.57.3.51 MultibootSelectImage() void MultibootSelectImage (
unsigned int sector )
```

Select the multiboot image specified by "sector" (range: 0..2) for IFB FPGA.

Returns

Throws exception on error.

```
11.57.3.52 ReadEepromRegisterPreconfig() [1/3] bool ReadEepromRegisterPreconfig (
             uint32_t EEPROMBase,
             uint32_t DMA_reg,
             [System::Runtime::InteropServices::Out] uint32_t% DMA_value )
11.57.3.53 ReadEepromRegisterPreconfig() [2/3] bool ReadEepromRegisterPreconfig (
             uint32_t EEPROMBase,
             uint32_t DMA_req,
             [System::Runtime::InteropServices::Out] uint32_t% DMA_value,
             uint32_t EEPROMSize )
11.57.3.54 ReadEepromRegisterPreconfig() [3/3] bool ReadEepromRegisterPreconfig (
             uint32_t EEPROMBase,
             uint32_t DMA_reg,
             [System::Runtime::InteropServices::Out] uint32_t% DMA_value,
             uint32_t EEPROMSize,
             uint32\_t EepromStartAddress )
11.57.3.55 ReadRegister() [1/2] unsigned int ReadRegister (
             unsigned int reg )
11.57.3.56 ReadRegister() [2/2] array<uint32_t> ^ ReadRegister (
             unsigned int reg,
             int length )
11.57.3.57 ReadRegister32() unsigned int ReadRegister32 (
             unsigned int adr )
```

```
11.57.3.58 ReadRegisterTimeSlot() unsigned int ReadRegisterTimeSlot (
             unsigned int reg,
             int TimeSlot )
11.57.3.59 RemoveSoftwareKey() void RemoveSoftwareKey (
             unsigned int index )
11.57.3.60 RescanHeadstage() void RescanHeadstage (
             uint32_t headstage )
rescans and activates a headstage
Parameters
  in
       headstage
                  the headstage number (0 or 1)
11.57.3.61 SetConfiguration() void SetConfiguration (
             uint8_t config )
11.57.3.62 SetSoftwareKey() void SetSoftwareKey (
             unsigned int index,
             array< BYTE >^{\land} buffer )
11.57.3.63 ThrowCUsbExceptionNetOnError() void ThrowCUsbExceptionNetOnError (
             uint32_t status )
11.57.3.64 TxnGetSerialNumber() unsigned int TxnGetSerialNumber ( )
11.57.3.65 TxnSetSerialNumber() void TxnSetSerialNumber (
             unsigned int number )
```

```
11.57.3.66 TxnTestMemoryReadAndCheck() unsigned int TxnTestMemoryReadAndCheck (
              unsigned short index)
\textbf{11.57.3.67} \quad \textbf{TxnTestMemoryWrite()} \quad \textbf{unsigned int TxnTestMemoryWrite ()}
              unsigned short index )
11.57.3.68 ValidKey() [1/2] bool ValidKey (
              String^{\wedge} key,
              [System::Runtime::InteropServices::Out] String^{8} serial_number)
11.57.3.69 ValidKey() [2/2] bool ValidKey (
              String^{\wedge} key,
              uint8_t ProgrammID,
              uint8_t majorversion,
              [System::Runtime::InteropServices::Out] String^% serial_number)
11.57.3.70 WriteEepromRegisterPreconfig() [1/3] void WriteEepromRegisterPreconfig (
              uint32_t EEPROMBase,
              uint32_t DMA_reg,
              uint32_t DMA_value )
11.57.3.71 WriteEepromRegisterPreconfig() [2/3] void WriteEepromRegisterPreconfig (
              uint32_t EEPROMBase,
              uint32_t DMA_reg,
              uint32_t DMA_value,
              uint32_t EEPROMSize )
\textbf{11.57.3.72} \quad \textbf{WriteEepromRegisterPreconfig() [3/3]} \quad \text{void WriteEepromRegisterPreconfig ()} \\
              uint32_t EEPROMBase,
              uint32_t DMA_reg,
              uint32_t DMA_value,
              uint32_t EEPROMSize,
              uint32_t EepromStartAddress )
```

```
11.57.3.73 WriteRegister() [1/2] void WriteRegister (
             unsigned int reg,
             array< unsigned int >^{\wedge} values )
11.57.3.74 WriteRegister() [2/2] void WriteRegister (
             unsigned int reg,
             unsigned int value )
11.57.3.75 WriteRegister32() void WriteRegister32 (
             unsigned int adr,
             unsigned int value )
11.57.3.76 WriteRegisterArray() void WriteRegisterArray (
             unsigned int reg,
             array< unsigned int >^{\land} values )
11.57.3.77 WriteRegisterTimeSlot() [1/2] void WriteRegisterTimeSlot (
             unsigned int reg,
             array< unsigned int >^{\wedge} values,
             int TimeSlot )
11.57.3.78 WriteRegisterTimeSlot() [2/2] void WriteRegisterTimeSlot (
             unsigned int reg,
             unsigned int value,
             int TimeSlot )
11.57.3.79 WriteRegisterValue() void WriteRegisterValue (
             unsigned int reg,
             unsigned int value )
```

11.57.4 Member Data Documentation

```
11.57.4.1 Status_AlreadyConfigured const uint32_t Status_AlreadyConfigured = (0xE0110001L)
[static]
11.57.4.2 Status_BadStartFrame const uint32_t Status_BadStartFrame = (0xE0100A00L) [static]
11.57.4.3 Status_Btstuff const uint32_t Status_Btstuff = (0xE0100002L) [static]
11.57.4.4 Status_BufferOverrun const uint32_t Status_BufferOverrun = (0xE010000CL) [static]
11.57.4.5 Status_BufferUnderrun const uint32_t Status_BufferUnderrun = (0xE010000DL) [static]
11.57.4.6 Status_Canceled const uint32_t Status_Canceled = (0xE0110000L) [static]
11.57.4.7 Status_Canceling const uint32_t Status_Canceling = (0xE0120000L) [static]
11.57.4.8 Status ConnectedPipes const uint32_t Status_ConnectedPipes = (0xE01F000AL) [static]
11.57.4.9 Status_ControlNotOwned const uint32_t Status_ControlNotOwned = (0xE0100D00L) [static]
11.57.4.10 Status_Crc const uint32_t Status_Crc = (0xE01000001L) [static]
11.57.4.11 Status_DataOverrun const uint32_t Status_DataOverrun = (0xE0100008L) [static]
```

```
11.57.4.12 Status_DataToggleMismatch const uint32_t Status_DataToggleMismatch = (0xE0100003L) [static]
```

- 11.57.4.13 Status_DataUnderrun const uint32_t Status_DataUnderrun = (0xE0100009L) [static]
- 11.57.4.14 Status_DeviceLocked const uint32_t Status_DeviceLocked = (0xE01F0010L) [static]
- 11.57.4.15 Status_DeviceNotFound const uint32_t Status_DeviceNotFound = (0xE01F0003L) [static]
- 11.57.4.16 Status_DeviceRemoved const uint32_t Status_DeviceRemoved = (0xE01F0008L) [static]
- **11.57.4.17 Status_DevNotResponding** const uint32_t Status_DevNotResponding = (0xE0100005L) [static]
- 11.57.4.18 Status_EndpointHalted const uint32_t Status_EndpointHalted = (0xE0100030L) [static]
- 11.57.4.19 Status_ErrorBusy const uint32_t Status_ErrorBusy = (0xE0100400L) [static]
- 11.57.4.20 Status_ErrorShortTransfer const uint32_t Status_ErrorShortTransfer = (0xE0100900L) [static]
- 11.57.4.21 Status_Fifo const uint32_t Status_Fifo = (0xE0100010L) [static]
- 11.57.4.22 Status_FrameControlOwned const uint32_t Status_FrameControlOwned = (0xE0100C00L) [static]

```
11.57.4.23 Status_InternalHcError const uint32_t Status_InternalHcError = (0xE0100800L) [static]
11.57.4.24 Status_InvalidDeviceHandle const uint32_t Status_InvalidDeviceHandle = (0xE0100013L)
 [static]
11.57.4.25 Status_InvalidHandle const uint32_t Status_InvalidHandle = (0xE0100012L) [static]
11.57.4.26 Status_InvalidParameter const uint32_t Status_InvalidParameter = (0xE0100300L) [static]
11.57.4.27 Status_InvalidPipeHandle const uint32_t Status_InvalidPipeHandle = (0xE0100600L)
 [static]
11.57.4.28 Status_InvalidUrbFunction const uint32_t Status_InvalidUrbFunction = (0xE0100200L)
 [static]
11.57.4.29 Status_IoPending const uint32_t Status_IoPending = (0xE01F0006L) [static]
11.57.4.30 Status_IoTimeout const uint32_t Status_IoTimeout = (0xE01F0007L) [static]
11.57.4.31 Status_IsochRequestFailed const uint32_t Status_IsochRequestFailed = (0xE0100B00L)
 [static]
\textbf{11.57.4.32} \quad \textbf{Status\_LastUsbErrorMismatch} \quad \texttt{const uint} \\ 32\_\texttt{t Status\_LastUsbErrorMismatch} \\ = (0xE01 \hookleftarrow 0xE01) \\ + (0xE01) \\ +
F0022L) [static]
```

```
11.57.4.33 Status_NoBandwidth const uint32_t Status_NoBandwidth = (0xE0100700L) [static]
11.57.4.34 Status_NoMemory const uint32_t Status_NoMemory = (0xE0100100L) [static]
11.57.4.35 Status_NoSuchDevice const uint32_t Status_NoSuchDevice = (0xE01F00002L) [static]
11.57.4.36 Status_NotAccessed const uint32_t Status_NotAccessed = (0xE010000FL) [static]
11.57.4.37 Status_NotSupported const uint32_t Status_NotSupported = (0xE01F0005L) [static]
11.57.4.38 Status_PidCheckFailure const uint32_t Status_PidCheckFailure = (0xE0100006L) [static]
11.57.4.39 Status_PipeNotLinked const uint32_t Status_PipeNotLinked = (0xE01F0009L) [static]
11.57.4.40 Status_RequestFailed const uint32_t Status_RequestFailed = (0xE0100500L) [static]
11.57.4.41 Status_RequestMutexFailed const uint32_t Status_RequestMutexFailed = (0xE01F0021L)
[static]
11.57.4.42 Status_RequestMutexTimeout const uint32_t Status_RequestMutexTimeout = (0xE01←
F0020L) [static]
```

11.57.4.43 Status_Stall const uint32_t Status_Stall = (0xE0100004L) [static]

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```
11.57.4.44 Status_Unconfigured const uint32_t Status_Unconfigured = (0xE0110002L) [static]
11.57.4.45 Status_UnexpectedPid const uint32_t Status_UnexpectedPid = (0xE0100007L) [static]
\textbf{11.57.4.46} \quad \textbf{WPAError\_ScanningIsPending} \quad \texttt{const uint32\_t WPAError\_ScanningIsPending} = ( \ \texttt{(0x} \leftarrow \texttt
A0220000L) | 0x0036 ) [static]
11.57.5 Property Documentation
11.57.5.1 SerialNumber virtual String^ SerialNumber [get]
 11.58 CMcsUsbPointerContainer Class Reference
                                                           CMEA2100_256DacqGroupChannelSelectionNet Class Reference
Inheritance diagram for CMEA2100_256DacqGroupChannelSelectionNet:
                                                                                                                                                                                                                                                                                                                                      CMcsUsbFunctionNet
                                                CDacqGroupChannelSelectionTemplateNet< MEA2100_256DacqGroupChannelEnumNet, MEA2100_256DacqGroupChannelEnum, CDeviceGroupChannelInfoMEA2100_256Net >
                                                                                                                                                                                                                                                                             CMEA2100_256DacqGroupChannelSelectionNet
Public Member Functions

    CMEA2100 256DacqGroupChannelSelectionNet (CMcsUsbNet<sup>^</sup> mcsusb)
```

Additional Inherited Members

11.59.1 Constructor & Destructor Documentation

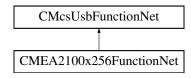
```
11.59.1.1 CMEA2100_256DacqGroupChannelSelectionNet() CMEA2100_256DacqGroupChannelSelectionNet (

CMcsUsbNet^ mcsusb )
```

11.60 CMEA2100x256FunctionNet Class Reference

CMEA2100x256FunctionNet is the class to control the MEA2100-256 device needs #include "Stg200xNet.h" to resolve documentation reference

Inheritance diagram for CMEA2100x256FunctionNet:



Public Member Functions

 CMEA2100x256FunctionNet (CMcsUsbNet[^] mcsusb, CMcsUsbFunctionPointerContainer[^] pMEA2100x256← FunctionPointerContainer)

Initializes a new instance of the CMEA2100x256FunctionNet class.

- CMEA2100x256FunctionNet (CMcsUsbNet[^] mcsusb)
- virtual ~CMEA2100x256FunctionNet ()
- !CMEA2100x256FunctionNet ()
- StimulationLayoutConfigurationEnumNet GetLayoutConfiguration ()

Gets the stimulation layout configuration. Can be single well, 6-well or 9-well. The number of DAC channels available per well is Mcs::Usb::CStg200xBasicNet::GetNumberOfAnalogChannels divided by Mcs::Usb::CStg200xBasicNet::GetNumberOfStimulation

• void SetLayoutConfiguration (StimulationLayoutConfigurationEnumNet LayoutConfiguration)

Sets the stimulation layout configuration. Can be single well, 6-well or 9-well. The number of DAC channels available per well is Mcs::Usb::CStg200xBasicNet::GetNumberOfAnalogChannels divided by Mcs::Usb::CStg200xBasicNet::GetNumberOfStimulation

Additional Inherited Members

11.60.1 Detailed Description

CMEA2100x256FunctionNet is the class to control the MEA2100-256 device needs #include "Stg200xNet.h" to resolve documentation reference

11.60.2 Constructor & Destructor Documentation

```
11.60.2.1 CMEA2100x256FunctionNet() [1/2] CMEA2100x256FunctionNet (
CMcsUsbNet^ mcsusb,
CMcsUsbFunctionPointerContainer^ pMEA2100x256FunctionPointerContainer)
```

Initializes a new instance of the CMEA2100x256FunctionNet class.

```
11.60.2.2 CMEA2100x256FunctionNet() [2/2] CMEA2100x256FunctionNet (
CMcsUsbNet^ mcsusb )
```

 $\textbf{11.60.2.3} \quad \sim \textbf{CMEA2100x256FunctionNet()} \quad \text{virtual} \quad \sim \texttt{CMEA2100x256FunctionNet ()} \quad [\text{virtual}]$

11.60.2.4 "!CMEA2100x256FunctionNet() !CMEA2100x256FunctionNet ()

11.60.3 Member Function Documentation

```
11.60.3.1 GetLayoutConfiguration() StimulationLayoutConfigurationEnumNet GetLayoutConfiguration ()
```

Gets the stimulation layout configuration. Can be single well, 6-well or 9-well. The number of DAC channels available per well is Mcs::Usb::CStg200xBasicNet::GetNumberOfAnalogChannels divided by Mcs::Usb::CStg200xBasicNet::GetNumberOfStimulationSourcesPerElectrode.

Returns

The currently active stimulation layout configuration.

```
11.60.3.2 SetLayoutConfiguration() void SetLayoutConfiguration (
StimulationLayoutConfigurationEnumNet LayoutConfiguration)
```

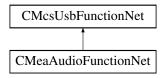
Sets the stimulation layout configuration. Can be single well, 6-well or 9-well. The number of DAC channels available per well is Mcs::Usb::CStg200xBasicNet::GetNumberOfAnalogChannels divided by Mcs::Usb::CStg200xBasicNet::GetNumberOfStimulationSourcesPerElectrode.

Parameters

LayoutConfiguration The new stimulation layout configuration.

11.61 CMeaAudioFunctionNet Class Reference

Inheritance diagram for CMeaAudioFunctionNet:



Classes

struct s_setaudionet

Public Member Functions

- CMeaAudioFunctionNet (CMcsUsbNet[∧] mcsusb, CMcsUsbFunctionPointerContainer[∧] meaAudioFunction
 —
 PointerContainer)
- CMeaAudioFunctionNet (CMcsUsbNet[^] mcsusb)
- virtual uint32_t GetNumberOfAudioChannels ()

Gets the number of available audio channels.

virtual uint32_t SetAudioChannels (array< s_setaudionet^>^ channels)

Sets the electrode to monitor and amplification for the audio channels.

- $\bullet \ \ virtual \ uint 32_t \ Set Audio Channels \ (array < s_set audionet ^> ^ \ channels, \ unsigned \ int \ virtual Device)$
 - Sets the electrode to monitor and amplification for the audio channels.
- virtual uint32_t GetAudioChannels ([System::Runtime::InteropServices::Out]array< s_setaudionet^>^% channels)

Gets the electrode to monitor and amplification for the audio channels.

virtual uint32_t GetAudioChannels ([System::Runtime::InteropServices::Out]array< s_setaudionet^>^% channels, unsigned int virtualDevice)

Gets the electrode to monitor and amplification for the audio channels.

Additional Inherited Members

11.61.1 Constructor & Destructor Documentation

```
11.61.1.1 CMeaAudioFunctionNet() [1/2] CMeaAudioFunctionNet (
CMcsUsbNet^ mcsusb,
CMcsUsbFunctionPointerContainer^ meaAudioFunctionPointerContainer)
```

```
11.61.1.2 CMeaAudioFunctionNet() [2/2] CMeaAudioFunctionNet ( CMcsUsbNet^ mcsusb )
```

11.61.2 Member Function Documentation

Gets the electrode to monitor and amplification for the audio channels.

Parameters

channels Struct which contains the electrode (channel) and amplification on return.

Returns

Error Status. 0 on success.

Gets the electrode to monitor and amplification for the audio channels.

Parameters

Parameters

virtualDevice	Virtual device to use.
---------------	------------------------

Returns

Error Status. 0 on success.

11.61.2.3 GetNumberOfAudioChannels() virtual uint32_t GetNumberOfAudioChannels () [virtual]

Gets the number of available audio channels.

Returns

The number of audio channels available, 0 when there are none.

```
11.61.2.4 SetAudioChannels() [1/2] virtual uint32_t SetAudioChannels (

array< s_setaudionet^>^ channels ) [virtual]
```

Sets the electrode to monitor and amplification for the audio channels.

Parameters

channels Struct which defines the electrode (channel) and amplification.
--

Returns

Error Status. 0 on success.

Sets the electrode to monitor and amplification for the audio channels.

Parameters

channels Struct which defines the electrode (channel) and amplific	ation.
--	--------

Parameters

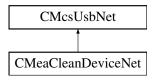
Returns

Error Status. 0 on success.

11.62 CMeaCleanDeviceNet Class Reference

CMeaCleanDeviceNet is the class to access the MEA Clean device.

 $Inheritance\ diagram\ for\ CMeaCleanDeviceNet:$



Public Member Functions

• CMeaCleanDeviceNet ()

Initializes a new instance of the CMeaCleanDeviceNet class.

- virtual ~CMeaCleanDeviceNet ()
- !CMeaCleanDeviceNet ()
- void Start ()

Starts a MEA Clean run.

• void Stop ()

Stops a MEA Clean run.

void SetSlope (uint32_t voltageSlope)

Sets the voltage slope.

• void SetCycles (uint32_t cycles)

Sets the number of cycles.

void SetMinVoltage (int32_t voltageMin)

Sets the lower voltage level.

• void SetMaxVoltage (int32_t voltageMax)

Sets the upper voltage level.

• bool IsRunning ()

Gets if the MEA Clean device is running.

• uint32_t GetSlope ()

Gets the voltage slope.

uint32_t GetCycles ()

Gets the number of cycles.

int32_t GetMinVoltage ()

Gets the lower voltage level.

int32_t GetMaxVoltage ()

Gets the upper voltage level

• int32_t GetOutputVoltage ()

Gets the output voltage.

int32_t GetCycle ()

Gets the current cycle.

Additional Inherited Members

11.62.1 Detailed Description

CMeaCleanDeviceNet is the class to access the MEA Clean device.

11.62.2 Constructor & Destructor Documentation

11.62.2.1 CMeaCleanDeviceNet() CMeaCleanDeviceNet ()

Initializes a new instance of the CMeaCleanDeviceNet class.

```
11.62.2.2 ~ CMeaCleanDeviceNet() virtual ~ CMeaCleanDeviceNet ( ) [virtual]
11.62.2.3 "!CMeaCleanDeviceNet() !CMeaCleanDeviceNet ( )
11.62.3 Member Function Documentation
11.62.3.1 GetCycle() int32_t GetCycle ( )
Gets the current cycle.
Returns
     The cycle number.
11.62.3.2 GetCycles() uint32_t GetCycles ( )
Gets the number of cycles.
Returns
     The number of cycles to run for.
11.62.3.3 GetMaxVoltage() int32_t GetMaxVoltage ( )
Gets the upper voltage level
Returns
     The upper voltage level in mV.
11.62.3.4 GetMinVoltage() int32_t GetMinVoltage ( )
Gets the lower voltage level.
Returns
     The lower voltage level in mV.
```

```
11.62.3.5 GetOutputVoltage() int32_t GetOutputVoltage ( )
```

Gets the output voltage.

Returns

The output voltage in mV.

```
11.62.3.6 GetSlope() uint32_t GetSlope ()
```

Gets the voltage slope.

Returns

The voltage slope in mV/s.

```
11.62.3.7 IsRunning() bool IsRunning ( )
```

Gets if the MEA Clean device is running.

Returns

"true" when a run is in progress, otherwise "false".

```
11.62.3.8 SetCycles() void SetCycles ( uint32_t cycles )
```

Sets the number of cycles.

Parameters

cycles The number of cycles to run for (0 .. 99).

Sets the upper voltage level.

Parameters

voltageMax The upper voltage level in mV (-1.6 .. 1.6 V).

Sets the lower voltage level.

Parameters

voltageMin	The lower voltage level in mV (-1.6 1.6 V).
------------	---

Sets the voltage slope.

Parameters

	voltageSlope	The voltage slope in mV/s (range 0 60 V/s).
--	--------------	---

```
11.62.3.12 Start() void Start ()
```

Starts a MEA Clean run.

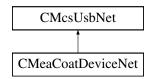
```
11.62.3.13 Stop() void Stop ()
```

Stops a MEA Clean run.

11.63 CMeaCoatDeviceNet Class Reference

CMeaCoatDeviceNet is the class to access the MEA Coat device.

Inheritance diagram for CMeaCoatDeviceNet:



Public Member Functions

CMeaCoatDeviceNet ()

Initializes a new instance of the CMeaCoatDeviceNet class.

- virtual ∼CMeaCoatDeviceNet ()
- !CMeaCoatDeviceNet ()
- void Start ()

Starts a MEA Coat run.

• void Stop ()

Stops a MEA Coat run.

void SetSlope (int32_t currentSlope)

Sets the current slope.

void SetDuration (uint32_t duration)

Sets the duration of a MEA Coat run.

void SetMaxCurrent (uint32_t currentMax)

Sets the limit of the current ramp (absolute value).

void SetOffsetCurrent (int32_t currentOffset)

Sets the offset of the current.

• bool IsRunning ()

Gets if the MEA Clean device is running.

• int32_t GetSlope ()

Gets the current slope.

• uint32_t GetDuration ()

Gets the duration of a MEA Coat run.

• uint32 t GetMaxCurrent ()

Gets the limit of the current ramp (absolute value).

· int32_t GetOffsetCurrent ()

Gets the offset of the current.

• int32_t GetOutputCurrent ()

Gets the output current.

• int32_t GetTimeInPlateau ()

Gets the time in the plateau.

void SetPauseDuration (uint32_t pauseDuration)

Sets the duration of the pause between MEA Coat pulses.

• uint32_t GetPauseDuration ()

Gets the duration of the pause between MEA Coat pulses.

• int32_t GetTimeInPause ()

Gets the time in the pause.

void SetCycles (uint32_t cycles)

Sets the number of cycles.

uint32_t GetCycles ()

Gets the number of cycles.

• int32_t GetCurrentCycle ()

Gets the current cycle.

Additional Inherited Members

11.63.1 Detailed Description

CMeaCoatDeviceNet is the class to access the MEA Coat device.

11.63.2 Constructor & Destructor Documentation

```
11.63.2.1 CMeaCoatDeviceNet() CMeaCoatDeviceNet ()
Initializes a new instance of the CMeaCoatDeviceNet class.
11.63.2.2 ~CMeaCoatDeviceNet() virtual ~CMeaCoatDeviceNet ( ) [virtual]
11.63.2.3 "!CMeaCoatDeviceNet() !CMeaCoatDeviceNet ()
11.63.3 Member Function Documentation
11.63.3.1 GetCurrentCycle() int32_t GetCurrentCycle ( )
Gets the current cycle.
Returns
    The cycle number.
11.63.3.2 GetCycles() uint32_t GetCycles ()
Gets the number of cycles.
Returns
     The number of cycles to run for.
11.63.3.3 GetDuration() uint32_t GetDuration ( )
```

Returns

Gets the duration of a MEA Coat run.

The duration in ms.

```
11.63.3.4 GetMaxCurrent() uint32_t GetMaxCurrent ( )
Gets the limit of the current ramp (absolute value).
Returns
     The limit of the current ramp in pA (absolute value).
11.63.3.5 GetOffsetCurrent() int32_t GetOffsetCurrent ( )
Gets the offset of the current.
Returns
     The offset of the current in pA.
11.63.3.6 GetOutputCurrent() int32_t GetOutputCurrent ( )
Gets the output current.
Returns
     The output current in pA.
11.63.3.7 GetPauseDuration() uint32_t GetPauseDuration ( )
Gets the duration of the pause between MEA Coat pulses.
Returns
     The duration in ms.
11.63.3.8 GetSlope() int32_t GetSlope ()
Gets the current slope.
Returns
```

The current slope in pA/s.

11.63.3.9 GetTimeInPause() int32_t GetTimeInPause ()

Gets the time in the pause.

Returns

The time in the pause in ms.

11.63.3.10 GetTimeInPlateau() int32_t GetTimeInPlateau ()

Gets the time in the plateau.

Returns

The time in the plateau in ms.

11.63.3.11 IsRunning() bool IsRunning ()

Gets if the MEA Clean device is running.

Returns

"true" when a run is in progress, otherwise "false".

```
11.63.3.12 SetCycles() void SetCycles (
    uint32_t cycles)
```

Sets the number of cycles.

Parameters

```
cycles The number of cycles to run for (0 .. 99).
```

```
11.63.3.13 SetDuration() void SetDuration ( uint32_t duration)
```

Sets the duration of a MEA Coat run.

Parameters

duration	The duration in ms (range 0 65 s).
----------	------------------------------------

```
11.63.3.14 SetMaxCurrent() void SetMaxCurrent ( uint32_t currentMax )
```

Sets the limit of the current ramp (absolute value).

Parameters

currentMax The limit of the current ramp in pA (absolute value, 0 .. 18 nA).

Sets the offset of the current.

Parameters

currentOffset	The offset of the current in pA (-10 10 nA).
---------------	--

```
11.63.3.16 SetPauseDuration() void SetPauseDuration ( uint32_t pauseDuration )
```

Sets the duration of the pause between MEA Coat pulses.

Parameters

pauseDuration	The duration in ms (range 0 65 s).
---------------	------------------------------------

```
11.63.3.17 SetSlope() void SetSlope ( int32_t currentSlope )
```

Sets the current slope.

Parameters

currentSlope The current slope in pA/s (range -65 .. 65 nA/s).

```
11.63.3.18 Start() void Start ()
```

Starts a MEA Coat run.

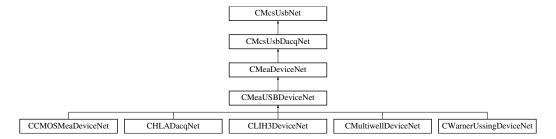
11.63.3.19 Stop() void Stop ()

Stops a MEA Coat run.

11.64 CMeaDeviceNet Class Reference

Base class for MEA data acquisition devices.

Inheritance diagram for CMeaDeviceNet:



Public Member Functions

CMeaDeviceNet (McsBusTypeEnumNet bustype)

Initializes a new instance of CMeaDeviceNet class.

CMeaDeviceNet (McsBusTypeEnumNet bustype, OnChannelData[^] channelData, OnError[^] error)

Initializes a new instance of CMeaDeviceNet class.

- ∼CMeaDeviceNet ()
- virtual int32_t GetGain ()

Gets the amplifier gain of the device.

- int32 t GetEnumerationSpeed ()
- virtual int32_t GetAnalogGain ()

Gets the gain of the analog inputs of the device.

• virtual uint32_t EnableDigitalIn (bool enable, unsigned int virtualDevice)

Enable the digital data word in the datastream.

virtual uint32_t EnableDigitalIn (DigitalDatastreamEnableEnumNet enable, unsigned int virtualDevice)

Enable digital data words in the datastream.

• virtual uint32_t EnableTimestamp (bool enable, unsigned int virtualDevice)

Enable the timestamp data word in the datastream. The timestamp is a 64 bit counter.

virtual uint32_t EnableChecksum (bool enable, unsigned int virtualDevice)

Enable the checksum data word in the datastream. The checksum is a 32 bit counter and 2x16 bit magic numbers.

• virtual void SetDigitalOut (unsigned int digout_value, int pulselength)

Generate a pulse on the digital output.

virtual uint32_t SetNumberOfChannels (int NumberOfChannels)

Sets the number of analog channels in the datastream.

• virtual uint32_t SetNumberOfChannels (int NumberOfChannels, unsigned int virtualDevice)

Sets the number of analog channels in the datastream.

virtual uint32_t SetNumberOfAnalogChannels (unsigned int NumberOfChannels_HS1, unsigned int NumberOfChannels_HS2, unsigned int NumberOfChannels_DSP, unsigned int NumberOfChannels_IF, unsigned int virtualDevice)

Sets the number of analog channels in the datastream for the MEA2100 device.

virtual uint32_t SetTriggerPeriod (int samples, unsigned int virtualDevice)

Sets the maximum number of samples per trigger.

virtual uint32_t SetTriggerMaskValue (unsigned int mask, unsigned int value, unsigned int virtualDevice)

Defines a pattern on the digital dataword which will start a trigger when found.

Properties

- CWClassicFunctionNet[^] WClassicFunctionNet [get]
- CW2100_FunctionNet^ W2100_FunctionNet [get]
- CMeaAudioFunctionNet [get]
- CMeaDigitalDataFunctionNet[^] MeaDigitalDataFunctionNet [get]
- CMeaFeedbackFunctionNet[^] MeaFeedbackFunctionNet [get]
- virtual int Gain [get]

The amplifier gain of the device. Value is gain times 1000, a value of 1000 corresponds to a gain of 1.0.

• virtual int AnalogGain [get]

The gain of the analog inputs of the device. Value is gain times 1000, a value of 1000 corresponds to a gain of 1.0.

Additional Inherited Members

11.64.1 Detailed Description

Base class for MEA data acquisition devices.

There are two different device types for MEA data aquistion devices. There are the USB-MEA devices and the MC ← Card. In .NET both classes can be accessed by the contructor of the base class CMeaDeviceNet, which contructs the correct underlying C++ class for the USB-MEA device on the one hand or the MC_Card device on the other hand. Through this interface both device types USB-MEA devices and MC Card devices can be accessed

11.64.2 Constructor & Destructor Documentation

```
11.64.2.1 CMeaDeviceNet() [1/2] CMeaDeviceNet (

McsBusTypeEnumNet bustype)
```

Initializes a new instance of CMeaDeviceNet class.

Parameters

bustype	Type of device to use, either USB or PCI.
---------	---

Initializes a new instance of CMeaDeviceNet class.

 $OnError^{\wedge}$ error)

Parameters

bustype Type of device to use, either US	B or PCI.
--	-----------

Parameters

Parameters

11.64.2.3 ~CMeaDeviceNet() ~CMeaDeviceNet ()

11.64.3 Member Function Documentation

Enable the checksum data word in the datastream. The checksum is a 32 bit counter and 2x16 bit magic numbers.

Parameters

enable	True to enable, False to disable.
virtualDevice	virtual device to use.

Returns

Error Status. 0 on success.

Enable the digital data word in the datastream.

Parameters

enable	True to enable, False to disable.
virtualDevice virtual device to use.	

Returns

Error Status. 0 on success.

Enable digital data words in the datastream.

Parameters

enable	True to enable, False to disable.
virtualDevice	virtual device to use.

Returns

Error Status. 0 on success.

Enable the timestamp data word in the datastream. The timestamp is a 64 bit counter.

enable	True to enable, False to disable.
virtualDevice	virtual device to use.

Returns

Error Status. 0 on success.

11.64.3.5 GetAnalogGain() virtual int32_t GetAnalogGain () [virtual]

Gets the gain of the analog inputs of the device.

Returns

Gain times 1000, a value of 1000 corresponds to a gain of 1.0.

11.64.3.6 GetEnumerationSpeed() int32_t GetEnumerationSpeed ()

```
11.64.3.7 GetGain() virtual int32_t GetGain ( ) [virtual]
```

Gets the amplifier gain of the device.

Returns

Gain times 1000, a value of 1000 corresponds to a gain of 1.0.

Generate a pulse on the digital output.

Parameters

digout_value	Bitmask to set on the digital out.
--------------	------------------------------------

pulselength Pulselength in m

```
11.64.3.9 SetNumberOfAnalogChannels() virtual uint32_t SetNumberOfAnalogChannels (
```

```
unsigned int NumberOfChannels_HS1,
unsigned int NumberOfChannels_HS2,
unsigned int NumberOfChannels_DSP,
unsigned int NumberOfChannels_IF,
unsigned int virtualDevice ) [virtual]
```

Sets the number of analog channels in the datastream for the MEA2100 device.

Parameters

of Channels_HS1 Number of analog channels from the Headstage 1.

Parameters

NumberOfChannels_HS2	Number of analog channels from the Headstage 2.
----------------------	---

Parameters

NumberOfChannels DSP	Number of data words from the DSP.
----------------------	------------------------------------

Parameters

NumberOfChannels⊷	Number of analog channels from the Interfaceboard.
_IF	

Parameters

virtualDevice	virtualDevice to use.
VIIIUAIDEVICE	VII LUAIDEVICE LU USE.

Returns

Error Status. 0 on success.

Sets the number of analog channels in the datastream.

Parameters

NumberOfChannels	Number of analog channels.
------------------	----------------------------

Returns

Error Status. 0 on success.

Sets the number of analog channels in the datastream.

Parameters

NumberOfChannels	Number of analog channels.
virtualDevice	virtual device to use.

Returns

Error Status. 0 on success.

Defines a pattern on the digital dataword which will start a trigger when found.

Parameters

mask	Bits in the digital dataword which are monitored for a match with value.
------	--

Returns

Error Status. 0 on success.

Sets the maximum number of samples per trigger.

Parameters

samples	Number of samples to acquire after the trigger condition is met.
,	1 1 33

Returns

Error Status. 0 on success.

11.64.4 Property Documentation

11.64.4.1 AnalogGain virtual int AnalogGain [get]

The gain of the analog inputs of the device. Value is gain times 1000, a value of 1000 corresponds to a gain of 1.0.

```
11.64.4.2 Gain virtual int Gain [get]
```

The amplifier gain of the device. Value is gain times 1000, a value of 1000 corresponds to a gain of 1.0.

11.64.4.3 MeaAudioFunctionNet CMeaAudioFunctionNet^ MeaAudioFunctionNet [get]

11.64.4.4 MeaDigitalDataFunctionNet CMeaDigitalDataFunctionNet^ MeaDigitalDataFunctionNet [get]

```
11.64.4.5 MeaFeedbackFunctionNet CMeaFeedbackFunctionNet^ MeaFeedbackFunctionNet [get]
```

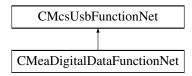
11.64.4.6 MeFunctionNet CMeFunctionNet^ MeFunctionNet [get]

11.64.4.7 W2100_FunctionNet CW2100_FunctionNet^ W2100_FunctionNet [get]

11.64.4.8 WClassicFunctionNet CWClassicFunctionNet^ WClassicFunctionNet [get]

11.65 CMeaDigitalDataFunctionNet Class Reference

Inheritance diagram for CMeaDigitalDataFunctionNet:



Public Member Functions

- CMeaDigitalDataFunctionNet (CMcsUsbNet[^] mcsusb)
- void SetDigitalData (unsigned int digital_value, unsigned int digital_value_mask)

Generate a value on the digital output.

void SetDigitalData (unsigned int bit_number, bool value)

Generate a value on the digital output.

unsigned int GetDigitalData ()

Get the value of the digital output.

Additional Inherited Members

11.65.1 Constructor & Destructor Documentation

```
11.65.1.1 CMeaDigitalDataFunctionNet() [1/2] CMeaDigitalDataFunctionNet (
CMcsUsbNet^ mcsusb,
CMcsUsbFunctionPointerContainer^ meaDigitalFunctionPointerContainer )
```

```
11.65.1.2 CMeaDigitalDataFunctionNet() [2/2] CMeaDigitalDataFunctionNet (
CMcsUsbNet^ mcsusb )
```

11.65.2 Member Function Documentation

```
11.65.2.1 GetDigitalData() unsigned int GetDigitalData ( )
```

Get the value of the digital output.

Returns

Value on the digital data register.

Generate a value on the digital output.

Parameters

Parameters

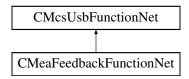
```
value Bit value.
```


Generate a value on the digital output.

digital	_value_mask	Mask for change.
---------	-------------	------------------

11.66 CMeaFeedbackFunctionNet Class Reference

Inheritance diagram for CMeaFeedbackFunctionNet:



Public Member Functions

- CMeaFeedbackFunctionNet (CMcsUsbNet[^] mcsusb, CMcsUsbFunctionPointerContainer[^] meaFeedback←
 FunctionNet)
- CMeaFeedbackFunctionNet (CMcsUsbNet[^] mcsusb)
- void FeedbackSetFeedback (unsigned char on, unsigned short digoutmask, unsigned short diginmask)
- unsigned int FeedbackGetSampleTimerCount ([System::Runtime::InteropServices::Out]unsigned int% CurrentCount, [System::Runtime::InteropServices::Out]unsigned int% LastKnownCount, [System::Runtime::InteropServices::Out]bool% On)
- void FeedbackSetDigitalMapping (unsigned short channel, unsigned short outmapping, unsigned short inmapping)
- void FeedbackSetFilterParameter (unsigned char filter, array< short >^ parameters)
- void FeedbackSetFilterParameter32 (unsigned char filter, array< int >^ parameters)
- void FeedbackSetIIRFilterParameter (unsigned char filter, int length, array< double >^ parameters)
- void FeedbackSetMkFilter (unsigned char filter, String^ filtertype, double cheb_ribble, String^ passtype, int order, double alpha1, double alpha2)
- void FeedbackSetChannelFilter (short channel, char filter)
- void FeedbackSetGlobalChannelFilter (char filter, unsigned short firstchannel, unsigned short lastchannel)
- void FeedbackSetFilterOff ()
- void FeedbackSetNumberOfSpikeDetectors (unsigned short number)
- void FeedbackSetSpikeDetectorThreshold (unsigned short position, unsigned short sourcechannel, unsigned short resultchannel, unsigned short trigger, unsigned short totzeit, int threshold1, int threshold2, short slope)
- void FeedbackSetNumberOfRateCounter (unsigned short number)
- void FeedbackSetRateCounter (unsigned short position, unsigned short sourcechannel, unsigned short resultchannel)
- void FeedbackSetNumberOfRateDetectors (unsigned short number)
- void FeedbackSetRateDetector (unsigned short position, unsigned short resultchannel, unsigned short trigger, unsigned short totzeit, unsigned short pulses, unsigned int duration1, unsigned int duration2)
- void FeedbackSetNumberOfLogics (unsigned short number)
- void FeedbackSetLogic (unsigned short position, array< unsigned short >^ sourcechannel, unsigned short resultchannel, unsigned int lookup)
- void FeedbackSetNumberOfTriggers (unsigned short number)
- void FeedbackSetTrigger (unsigned short position, unsigned short sourcechannel, unsigned short resultchannel, unsigned short trigger, unsigned short totzeit)
- void FeedbackSetAnalogSource (AnalogSourceEnumNet AnalogSource, unsigned int Channels, unsigned int Offset)

Additional Inherited Members

11.66.1 Constructor & Destructor Documentation

```
11.66.1.1 CMeaFeedbackFunctionNet() [1/2] CMeaFeedbackFunctionNet (
              CMcsUsbNet^ mcsusb,
              {\tt CMcsUsbFunctionPointerContainer}^{\land} \ \textit{meaFeedbackFunctionNet} \ )
\textbf{11.66.1.2} \quad \textbf{CMeaFeedbackFunctionNet() [2/2]} \quad \texttt{CMeaFeedbackFunctionNet ()}
              CMcsUsbNet^ mcsusb )
11.66.2 Member Function Documentation
11.66.2.1 FeedbackGetSampleTimerCount() unsigned int FeedbackGetSampleTimerCount (
              [System::Runtime::InteropServices::Out] unsigned int% CurrentCount,
              [System::Runtime::InteropServices::Out] unsigned int% LastKnownCount,
              [System::Runtime::InteropServices::Out] bool% On )
11.66.2.2 FeedbackSetAnalogSource() void FeedbackSetAnalogSource (
              AnalogSourceEnumNet AnalogSource,
              unsigned int Channels,
              unsigned int Offset )
11.66.2.3 FeedbackSetChannelFilter() void FeedbackSetChannelFilter (
              short channel,
              char filter )
11.66.2.4 FeedbackSetDigitalMapping() void FeedbackSetDigitalMapping (
              unsigned short channel,
             unsigned short outmapping,
              unsigned short inmapping )
```

```
11.66.2.5 FeedbackSetFeedback() void FeedbackSetFeedback (
              unsigned char on,
              unsigned short digoutmask,
              unsigned short \operatorname{\textit{diginmask}} )
11.66.2.6 FeedbackSetFilterOff() void FeedbackSetFilterOff ()
11.66.2.7 FeedbackSetFilterParameter() void FeedbackSetFilterParameter (
             unsigned char filter,
              array< short >^{\wedge} parameters )
11.66.2.8 FeedbackSetFilterParameter32() void FeedbackSetFilterParameter32 (
             unsigned char filter,
              array < int >^{\wedge} parameters)
11.66.2.9 FeedbackSetGlobalChannelFilter() void FeedbackSetGlobalChannelFilter (
              char filter,
              unsigned short firstchannel,
              unsigned short lastchannel )
11.66.2.10 FeedbackSetllRFilterParameter() void FeedbackSetllRFilterParameter (
              unsigned char filter,
              int length,
              array < double >^{\wedge} parameters )
11.66.2.11 FeedbackSetLogic() void FeedbackSetLogic (
              unsigned short position,
             array< unsigned short >^{\wedge} sourcechannel,
              unsigned short resultchannel,
              unsigned int lookup )
```

```
11.66.2.12 FeedbackSetMkFilter() void FeedbackSetMkFilter (
             unsigned char filter,
             String^{\wedge} filtertype,
             double cheb_ribble,
             String^{\wedge} passtype,
             int order,
             double alpha1,
             double alpha2 )
11.66.2.13 FeedbackSetNumberOfLogics() void FeedbackSetNumberOfLogics (
             unsigned short number )
11.66.2.14 FeedbackSetNumberOfRateCounter() void FeedbackSetNumberOfRateCounter (
             unsigned short number )
11.66.2.15 FeedbackSetNumberOfRateDetectors() void FeedbackSetNumberOfRateDetectors (
             unsigned short number )
11.66.2.16 FeedbackSetNumberOfSpikeDetectors() void FeedbackSetNumberOfSpikeDetectors (
             unsigned short number )
11.66.2.17 FeedbackSetNumberOfTriggers() void FeedbackSetNumberOfTriggers (
             unsigned short number )
11.66.2.18 FeedbackSetRateCounter() void FeedbackSetRateCounter (
             unsigned short position,
             unsigned short sourcechannel,
             unsigned short resultchannel )
11.66.2.19 FeedbackSetRateDetector() void FeedbackSetRateDetector (
             unsigned short position,
             unsigned short resultchannel,
             unsigned short trigger,
             unsigned short totzeit,
             unsigned short pulses,
             unsigned int duration1,
             unsigned int duration2 )
```

11.66.2.20 FeedbackSetSpikeDetectorThreshold() void FeedbackSetSpikeDetectorThreshold (

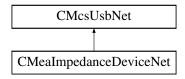
```
unsigned short position,
unsigned short sourcechannel,
unsigned short resultchannel,
unsigned short trigger,
unsigned short totzeit,
int threshold1,
int threshold2,
short slope )
```

11.66.2.21 FeedbackSetTrigger() void FeedbackSetTrigger (

```
unsigned short position,
unsigned short sourcechannel,
unsigned short resultchannel,
unsigned short trigger,
unsigned short totzeit)
```

11.67 CMealmpedanceDeviceNet Class Reference

Inheritance diagram for CMealmpedanceDeviceNet:



Public Member Functions

- CMealmpedanceDeviceNet ()
- ∼CMeaImpedanceDeviceNet ()
- virtual void StartMeasurement (unsigned short channel)
- virtual unsigned short GetReady ()
- virtual unsigned short GetArraySize ()
- virtual array< unsigned short > ^ GetResult ()
- unsigned short GetAdapterCode ()
- virtual unsigned int GetImpedanceTestFrequency ()
- virtual void SetImpedanceTestFrequency (unsigned int TestFrequency_Hertz)

Additional Inherited Members

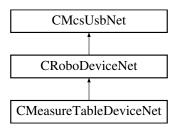
11.67.1 Constructor & Destructor Documentation

11.67.1.1 CMealmpedanceDeviceNet() CMealmpedanceDeviceNet ()

```
11.67.1.2 ~CMealmpedanceDeviceNet() ~CMeaImpedanceDeviceNet ()
11.67.2 Member Function Documentation
11.67.2.1 GetAdapterCode() unsigned short GetAdapterCode ( )
11.67.2.2 GetArraySize() virtual unsigned short GetArraySize ( ) [virtual]
11.67.2.3 GetImpedanceTestFrequency() virtual unsigned int GetImpedanceTestFrequency ( )
[virtual]
11.67.2.4 GetReady() virtual unsigned short GetReady ( ) [virtual]
\textbf{11.67.2.5} \quad \textbf{GetResult()} \quad \text{virtual array} < \text{unsigned short} > \ ^ \land \ \text{GetResult ( )} \quad \text{[virtual]}
11.67.2.6 SetImpedanceTestFrequency() virtual void SetImpedanceTestFrequency (
              unsigned int TestFrequency_Hertz ) [virtual]
11.67.2.7 StartMeasurement() virtual void StartMeasurement (
              unsigned short channel ) [virtual]
11.68 CMeasureTableDeviceNet Class Reference
```

CMeasureTableDeviceNet is the to control the MCS HLA device

Inheritance diagram for CMeasureTableDeviceNet:



Public Member Functions

CMeasureTableDeviceNet (void)

Properties

• CMcsBus_SensorNet^ Sensor [get]

Additional Inherited Members

11.68.1 Detailed Description

CMeasureTableDeviceNet is the to control the MCS HLA device

11.68.2 Constructor & Destructor Documentation

```
11.68.2.1 CMeasureTableDeviceNet() CMeasureTableDeviceNet ( void )
```

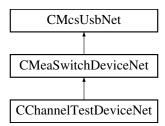
11.68.3 Property Documentation

```
11.68.3.1 Sensor CMcsBus_SensorNet^ Sensor [get]
```

11.69 CMeaSwitchDeviceNet Class Reference

The class to control the USB-MEA-Switch.

Inheritance diagram for CMeaSwitchDeviceNet:



Public Member Functions

CMeaSwitchDeviceNet ()

Constructor.

∼CMeaSwitchDeviceNet ()

Destructor.

• unsigned short GetNumber ()

Gets the number of boards in the device.

array< unsigned char > ^ GetPattern ()

Gets the pattern of the switches that are currently set in the device as char array.

array< bool > ^ GetPatternBool ()

Gets the pattern of the switches that are currently set in he device as bools.

void SetPattern (array< unsigned char >^ pattern)

Sets the pattern of switches from a char array.

void SetPatternBool (array< bool >^ pattern)

Sets the pattern of switches from a.

Additional Inherited Members

11.69.1 Detailed Description

The class to control the USB-MEA-Switch.

This class controls the settings of the USB-MEA-Switch. The box has two inputs for signals from a MEA amplifier. Each of the 64 outputs can be connected to one of the MEAs at the same channel.

11.69.2 Constructor & Destructor Documentation

```
11.69.2.1 CMeaSwitchDeviceNet() CMeaSwitchDeviceNet ( )
```

Constructor.

```
11.69.2.2 \sim CMeaSwitchDeviceNet() \sim CMeaSwitchDeviceNet ( )
```

Destructor.

11.69.3 Member Function Documentation

```
11.69.3.1 GetNumber() unsigned short GetNumber ()
```

Gets the number of boards in the device.

The MEA-Switch are delivered with 64 or 128 channels

```
11.69.3.2 GetPattern() array<unsigned char> ^ GetPattern ( )
```

Gets the pattern of the switches that are currently set in the device as char array.

```
11.69.3.3 GetPatternBool() array<bool> ^ GetPatternBool ( )
```

Gets the pattern of the switches that are currently set in he device as bools.

```
11.69.3.4 SetPattern() void SetPattern (

array< unsigned char >^ pattern )
```

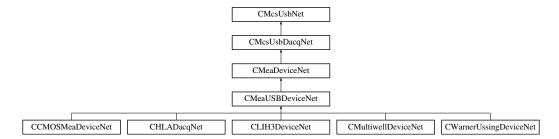
Sets the pattern of switches from a char array.

Sets the pattern of switches from a.

11.70 CMeaUSBDeviceNet Class Reference

Class for data acquisition via ME and MEA USB amplifiers

Inheritance diagram for CMeaUSBDeviceNet:



Public Member Functions

- CMeaUSBDeviceNet (OnChannelData[^] channelData, OnError[^] error)
 - Initializes a new instance of CMeaDeviceNet class.
- CMeaUSBDeviceNet ()

Initializes a new instance of CMeaDeviceNet class.

∼CMeaUSBDeviceNet ()

Additional Inherited Members

11.70.1 Detailed Description

Class for data acquisition via ME and MEA USB amplifiers

11.70.2 Constructor & Destructor Documentation

```
11.70.2.1 CMeaUSBDeviceNet() [1/2] CMeaUSBDeviceNet (
OnChannelData^ channelData,
OnError^ error )
```

Initializes a new instance of CMeaDeviceNet class.

Parameters

channelData	Handler to call when new data is available.
-------------	---

Parameters

error Handler to call when an error occurs.

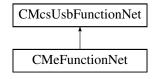
11.70.2.2 CMeaUSBDeviceNet() [2/2] CMeaUSBDeviceNet ()

Initializes a new instance of CMeaDeviceNet class.

11.70.2.3 ~CMeaUSBDeviceNet() ~CMeaUSBDeviceNet ()

11.71 CMeFunctionNet Class Reference

Inheritance diagram for CMeFunctionNet:



Public Member Functions

CMeFunctionNet (CMcsUsbNet[^] mcsusb, CMcsUsbFunctionPointerContainer[^] meFunctionPointer
 — Container)

Initializes a new instance of the CDacCalibrationFunctionNet class.

- CMeFunctionNet (CMcsUsbNet[^] mcsusb)
- virtual ∼CMeFunctionNet (void)
- !CMeFunctionNet (void)
- void SetTransformer (unsigned int index, bool onoff)

Additional Inherited Members

11.71.1 Detailed Description

11.71.2 Constructor & Destructor Documentation

Initializes a new instance of the CDacCalibrationFunctionNet class.

```
11.71.2.2 CMeFunctionNet() [2/2] CMeFunctionNet (
CMcsUsbNet^ mcsusb )
```

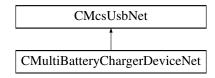
```
11.71.2.3 ~CMeFunctionNet() virtual ~CMeFunctionNet ( void ) [virtual]
```

11.71.3 Member Function Documentation

11.72 CMultiBatteryChargerDeviceNet Class Reference

CMultiBatteryChargerDeviceNet is the class to access the MBC-08 device.

Inheritance diagram for CMultiBatteryChargerDeviceNet:



Public Member Functions

CMultiBatteryChargerDeviceNet ()

Initializes a new instance of the CMultiBatteryChargerDeviceNet class.

- virtual ~CMultiBatteryChargerDeviceNet ()
- !CMultiBatteryChargerDeviceNet ()
- uint32_t GetChargeCurrent (uint32_t NrChannel)

gets the charge current; unit: mA

uint32_t GetDischargeCurrent (uint32_t NrChannel)

gets the discharge current; unit: mA

void SetDischargeCurrentSetPoint (uint32_t NrChannel, uint32_t DischargeCurrent_mA)

sets the setpoint for the discharge current; unit: mA

uint32 t GetDischargeCurrentSetPoint (uint32 t NrChannel)

gets the setpoint for the discharge current; unit: mA

• void SetFinalDischargeVoltage (uint32_t NrChannel, uint32_t FinalDischargeVoltage_mV)

sets the final discharge voltage; unit: mV

uint32_t GetFinalDischargeVoltage (uint32_t NrChannel)

gets the final discharge voltage; unit: mV

uint32_t GetDischargeCapacity (uint32_t NrChannel)

gets the discharge capacity; unit: ?Ah

uint32_t GetChargeCapacity (uint32_t NrChannel)

gets the charge capacity; unit: ?Ah

uint32_t GetBatteryVoltage (uint32_t NrChannel)

gets the battery voltage; unit: mV

• uint32 t GetChannels ()

gets number of channels

void SetRatedCapacityVolatile (uint32_t NrChannel, MbcRatedCapacityEnumNet NewRatedCapacity)

sets the rated capacity (i.e. charge current) without storing it persistently

void SetChargingMode (uint32 t NrChannel, MbcChargingModeEnumNet NewOperatingMode)

sets the charging mode: StorageCharge, LowCurrentCharge and HighCurrentCharge

MbcChargingModeEnumNet GetChargingMode (uint32_t NrChannel)

gets the charging mode: StorageCharge, LowCurrentCharge and HighCurrentCharge

MbcChannelStateEnumNet GetChannelState (uint32_t NrChannel)

gets the channel state: IdleNoBattery, IdleChargeFinished, CapacityTestPreCharge, CapacityTestDischarge, StorageCharge, LowCurrentCharge, HighCurrentCharge

void CapacityTest (uint32_t NrChannel)

start capacity test on channel

void ChannelReset (uint32_t NrChannel)

cancel charging and capacity test functions; check if battery is connected

- void SetChargingPCoefficient (uint32_t pCoefficient)
 sets the p-coefficient for charging in mA/V / nominal charging current
- uint32_t GetChargingPCoefficient ()

gets the p-coefficient for charging in mA/V / nominal charging current

- void SetRatedCapacity (uint32_t NrChannel, MbcRatedCapacityEnumNet NewRatedCapacity)
- MbcRatedCapacityEnumNet GetRatedCapacity (uint32_t NrChannel)
 gets the rated capacity

Additional Inherited Members

11.72.1 Detailed Description

CMultiBatteryChargerDeviceNet is the class to access the MBC-08 device.

11.72.2 Constructor & Destructor Documentation

11.72.2.1 CMultiBatteryChargerDeviceNet() CMultiBatteryChargerDeviceNet ()

Initializes a new instance of the CMultiBatteryChargerDeviceNet class.

```
11.72.2.2 ~ CMultiBatteryChargerDeviceNet() virtual ~ CMultiBatteryChargerDeviceNet ( ) [virtual]
```

```
11.72.2.3 "!CMultiBatteryChargerDeviceNet() !CMultiBatteryChargerDeviceNet ( )
```

11.72.3 Member Function Documentation

start capacity test on channel

Parameters

NrChannel | the channel number

```
11.72.3.2 ChannelReset() void ChannelReset ( uint32_t NrChannel)
```

cancel charging and capacity test functions; check if battery is connected

Parameters

NrChannel the channel number

```
11.72.3.3 GetBatteryVoltage() uint32_t GetBatteryVoltage ( uint32_t NrChannel )
```

gets the battery voltage; unit: mV

Parameters

Returns

the battery voltage in mV

11.72.3.4 GetChannels() uint32_t GetChannels ()

gets number of channels

Returns

number of channels

11.72.3.5 **GetChannelState()** MbcChannelStateEnumNet GetChannelState (uint32_t NrChannel)

gets the channel state: IdleNoBattery, IdleChargeFinished, CapacityTestPreCharge, CapacityTestDischarge, StorageCharge, LowCurrentCharge, HighCurrentCharge

	NrChannel	the channel number
--	-----------	--------------------

Returns

the current state

```
11.72.3.6 GetChargeCapacity() uint32_t GetChargeCapacity ( uint32_t NrChannel)
```

gets the charge capacity; unit: ?Ah

Parameters

NrChannel th	e channel number
--------------	------------------

Returns

the capacity in uAh

gets the charge current; unit: mA

Parameters

NrChannel the channel number

Returns

the measured charge current in mA

11.72.3.8 GetChargingMode() MbcChargingModeEnumNet GetChargingMode (uint32_t NrChannel)

 $gets\ the\ charging\ mode:\ Storage Charge,\ Low Current Charge\ and\ High Current Charge$

Parameters

NrChannel the channel number

Returns

the charging mode

```
11.72.3.9 GetChargingPCoefficient() uint32_t GetChargingPCoefficient ( )
```

gets the p-coefficient for charging in mA/V / nominal charging current

Returns

the p-coefficient

```
\textbf{11.72.3.10} \quad \textbf{GetDischargeCapacity()} \quad \texttt{uint32\_t GetDischargeCapacity ()}
```

uint32_t NrChannel)

gets the discharge capacity; unit: ?Ah

Parameters

NrChannel the channel number

Returns

the capacity in uAh

11.72.3.11 GetDischargeCurrent() uint32_t GetDischargeCurrent (

uint32_t NrChannel)

gets the discharge current; unit: mA

Parameters

NrChannel the channel number

Returns

the measured discharge current in mA

11.72.3.12 GetDischargeCurrentSetPoint() uint32_t GetDischargeCurrentSetPoint (

uint32_t NrChannel)

gets the setpoint for the discharge current; unit: mA

Parameters

NrChannel the channel number

Returns

the discharge current in mA

11.72.3.13 GetFinalDischargeVoltage() uint32_t GetFinalDischargeVoltage (uint32_t NrChannel)

gets the final discharge voltage; unit: mV

Parameters

Returns

the battery voltage in mV at the end of discharge

11.72.3.14 GetRatedCapacity() MbcRatedCapacityEnumNet GetRatedCapacity (uint32_t NrChannel)

gets the rated capacity

Parameters

NrChannel	the channel number

Returns

the capacity

sets the charging mode: StorageCharge, LowCurrentCharge and HighCurrentCharge

NrChannel	the channel number
NewOperatingMode	the charging mode

11.72.3.16 SetChargingPCoefficient() void SetChargingPCoefficient (uint32_t pCoefficient)

sets the p-coefficient for charging in mA/V / nominal charging current

Parameters

pCoefficient	the p-coefficient
--------------	-------------------

sets the setpoint for the discharge current; unit: mA

Parameters

NrChannel	the channel number
DischargeCurrent_mA	the discharge current in mA

sets the final discharge voltage; unit: mV

Parameters

NrChannel	the channel number
FinalDischargeVoltage_mV	the battery voltage in mV at the end of discharge

sets the rated capacity

NrChannel	the channel number
NewRatedCapacity	the capacity

sets the rated capacity (i.e. charge current) without storing it persistently

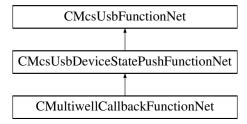
Parameters

NrChannel	the channel number
NewRatedCapacity	the capacity

11.73 CMultiwellCallbackFunctionNet Class Reference

CMultiwellCallbackFunctionNet is the class to access the Multiwell-Mini-Stimulator

Inheritance diagram for CMultiwellCallbackFunctionNet:



Public Member Functions

- delegate void OnGetPlateClampStateByHeadstage (uint32_t Headstage, PlateClampEnumNet plateState)
- CMultiwellCallbackFunctionNet (CMcsUsbNet[∧] mcsusb, CMcsUsbFunctionPointerContainer[∧] pMultiwell CallbackFunctionPointerContainer)

Initializes a new instance of the CMultiwellCallbackFunctionNet class.

- CMultiwellCallbackFunctionNet (CMcsUsbNet[^] mcsusb)
- virtual ~CMultiwellCallbackFunctionNet ()
- !CMultiwellCallbackFunctionNet ()
- PlateClampEnumNet GetPlateClampStateByHeadstage (uint32_t Headstage)

Gets the state of the plate

Events

• OnGetPlateClampStateByHeadstage^ GetPlateClampStateByHeadstageEvent [add, remove, raise]

Event fires when the plate state for the headstage number has changed

Additional Inherited Members

11.73.1 Detailed Description

CMultiwellCallbackFunctionNet is the class to access the Multiwell-Mini-Stimulator

11.73.2 Constructor & Destructor Documentation

```
\textbf{11.73.2.1} \quad \textbf{CMultiwellCallbackFunctionNet() [1/2]} \quad \texttt{CMultiwellCallbackFunctionNet} \quad \textbf{(}
               CMcsUsbNet^ mcsusb,
               {\tt CMcsUsbFunctionPointerContainer}^{\land} \ p{\tt MultiwellCallbackFunctionPointerContainer} \ )
Initializes a new instance of the CMultiwellCallbackFunctionNet class.
11.73.2.2 CMultiwellCallbackFunctionNet() [2/2] CMultiwellCallbackFunctionNet (
               CMcsUsbNet^ mcsusb )
11.73.2.3 ~CMultiwellCallbackFunctionNet() virtual ~CMultiwellCallbackFunctionNet ( ) [virtual]
11.73.2.4 "!CMultiwellCallbackFunctionNet() !CMultiwellCallbackFunctionNet ( )
11.73.3 Member Function Documentation
\textbf{11.73.3.1} \quad \textbf{GetPlateClampStateByHeadstage()} \quad \texttt{PlateClampEnumNet} \quad \texttt{GetPlateClampStateByHeadstage} \quad \texttt{(}
               uint32_t Headstage )
Gets the state of the plate
Parameters
 Headstage
               The headstage number
Returns
     The plate state
11.73.3.2 OnGetPlateClampStateByHeadstage() delegate void OnGetPlateClampStateByHeadstage (
               uint32_t Headstage,
```

PlateClampEnumNet plateState)

11.73.4 Event Documentation

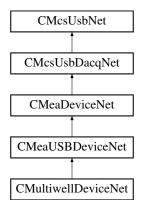
11.73.4.1 GetPlateClampStateByHeadstageEvent OnGetPlateClampStateByHeadstage[∧] GetPlateClamp↔ StateByHeadstageEvent [add], [remove], [raise]

Event fires when the plate state for the headstage number has changed

11.74 CMultiwellDeviceNet Class Reference

CMultiwellDeviceNet is the class to access the Multiwell device.

Inheritance diagram for CMultiwellDeviceNet:



Public Member Functions

CMultiwellDeviceNet ()

Initializes a new instance of the CMultiwellDeviceNet class.

- virtual ∼CMultiwellDeviceNet ()
- !CMultiwellDeviceNet ()
- PlateClampEnumNet GetPlateClampState ()

Gets the state of the Multiwell plate clamp.

PlateClampEnumNet GetPlateClampState (uint32 t Headstage)

Gets the state of the plate

void OpenPlateClamp ()

Opens the plate clamp.

• void ClosePlateClamp ()

Closes the plate clamp.

• void StopPlateClamp ()

Stops the plate clamp movement.

• uint32_t GetPlateClampLockState ()

Gets the state of the plate clamp lock.

void LockPlateClamp ()

Locks the plate clamp.

void UnlockPlateClamp ()

Unlocks the plate clamp.

• MultiwellPlateTypeEnumNet GetPlateType ()

Gets the plate type.

MultiwellPlateTypeEnumNet GetPlateType (uint32_t Headstage)

Gets the plate type.

void SetPlateType (MultiwellPlateTypeEnumNet plateType)

Sets the plate type.

void SetPlateType (uint32_t Headstage, MultiwellPlateTypeEnumNet plateType)

Sets the plate type.

void SetPlateMux (uint32_t muxSelection)

Selects a one quarter of the electrodes on a high density Multiwell plate.

• void SetPlateMux (uint32_t Headstage, uint32_t muxSelection)

Selects a one quarter of the electrodes on a high density Multiwell plate.

uint32_t GetPlateMux ()

Gets the selected quarter of the electrodes on a high density Multiwell plate.

uint32_t GetPlateMux (uint32_t Headstage)

Gets the selected quarter of the electrodes on a high density Multiwell plate.

bool IsPlateTypeValid ()

Checks whether the plate type is valid, meaning all pins have contact.

• bool IsPlateTypeValid (uint32_t Headstage)

Checks whether the plate type is valid, meaning all pins have contact.

void SetPowerMuxPlate (uint32 t Headstage, bool powerOn)

On the Multiwell Mini device, turn Power to the MUX Plate On or Off.

bool GetPowerMuxPlate (uint32_t Headstage)

On the Multiwell Mini device, Query if Power to the MUX Plate is On or Off.

Additional Inherited Members

11.74.1 Detailed Description

CMultiwellDeviceNet is the class to access the Multiwell device.

11.74.2 Constructor & Destructor Documentation

11.74.2.1 CMultiwellDeviceNet() CMultiwellDeviceNet ()

Initializes a new instance of the CMultiwellDeviceNet class.

11.74.2.2 ~ CMultiwellDeviceNet() virtual ~ CMultiwellDeviceNet () [virtual]

11.74.2.3 "!CMultiwellDeviceNet() !CMultiwellDeviceNet ()

11.74.3 Member Function Documentation

11.74.3.1 ClosePlateClamp() void ClosePlateClamp ()

Closes the plate clamp.

11.74.3.2 GetPlateClampLockState() uint32_t GetPlateClampLockState ()

Gets the state of the plate clamp lock.

Returns

the state of the plate lock (unlocked/locked)

11.74.3.3 GetPlateClampState() [1/2] PlateClampEnumNet GetPlateClampState ()

Gets the state of the Multiwell plate clamp.

Returns

the state of the plate clamp (open/closed)

11.74.3.4 GetPlateClampState() [2/2] PlateClampEnumNet GetPlateClampState (uint32_t Headstage)

Gets the state of the plate

Parameters

Headstage	The headstage number
-----------	----------------------

Returns

The plate state

11.74.3.5 GetPlateMux() [1/2] uint32_t GetPlateMux ()

Gets the selected quarter of the electrodes on a high density Multiwell plate.

Returns

the selected quarter

```
11.74.3.6 GetPlateMux() [2/2] uint32_t GetPlateMux ( uint32_t Headstage )
```

Gets the selected quarter of the electrodes on a high density Multiwell plate.

Parameters

Headstage	The headstage to query.
-----------	-------------------------

Returns

the selected quarter

11.74.3.7 GetPlateType() [1/2] MultiwellPlateTypeEnumNet GetPlateType ()

Gets the plate type.

Returns

the plate type

11.74.3.8 GetPlateType() [2/2] MultiwellPlateTypeEnumNet GetPlateType (uint32_t Headstage)

Gets the plate type.

Parameters

Headstage

Returns

the plate type

11.74.3.9 **GetPowerMuxPlate()** bool GetPowerMuxPlate (uint32_t *Headstage*)

On the Multiwell Mini device, Query if Power to the MUX Plate is On or Off.

Headstage	The headstage to query.
-----------	-------------------------

Returns

"true" Power is On, "false" Power is Off

11.74.3.10 IsPlateTypeValid() [1/2] bool IsPlateTypeValid ()

Checks whether the plate type is valid, meaning all pins have contact.

Returns

"true" when all pins have contact, otherwise "false".

11.74.3.11 IsPlateTypeValid() [2/2] bool IsPlateTypeValid (uint32_t Headstage)

Checks whether the plate type is valid, meaning all pins have contact.

Parameters

Headstage	The headstage to query.

Returns

"true" when all pins have contact, otherwise "false".

11.74.3.12 LockPlateClamp() void LockPlateClamp ()

Locks the plate clamp.

$\textbf{11.74.3.13} \quad \textbf{OpenPlateClamp()} \quad \texttt{void OpenPlateClamp ()}$

Opens the plate clamp.

Selects a one quarter of the electrodes on a high density Multiwell plate.

Headstage	The headstage to query.
muxSelection	the selected quarter

11.74.3.15 SetPlateMux() [2/2] void SetPlateMux (uint32_t muxSelection)

Selects a one quarter of the electrodes on a high density Multiwell plate.

Parameters

muxSelection	the selected quarter
--------------	----------------------

Sets the plate type.

Parameters

Sets the plate type.

Parameters

Headstage	The headstage to query.
plateType	the plate type

On the Multiwell Mini device, turn Power to the MUX Plate On or Off.

Headstage	The headstage to query.
powerOn	"true" to turn Power On, "false" to turn Power Off

11.74.3.19 StopPlateClamp() void StopPlateClamp ()

Stops the plate clamp movement.

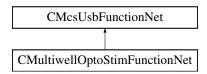
11.74.3.20 UnlockPlateClamp() void UnlockPlateClamp ()

Unlocks the plate clamp.

11.75 CMultiwellOptoStimFunctionNet Class Reference

CMultiwellOptoStimFunctionNet is the class to access the optical properties of the Multiwell Optostim device

Inheritance diagram for CMultiwellOptoStimFunctionNet:



Public Member Functions

- CMultiwellOptoStimFunctionNet (CMcsUsbNet[^] mcsusb, CMcsUsbFunctionPointerContainer[^] pMultiwell←
 OptoStimFunctionPointerContainer)
 - Initializes a new instance of the CMultiwellOptoStimFunctionNet class.
- CMultiwellOptoStimFunctionNet (CMcsUsbNet[^] mcsusb)
- virtual ~CMultiwellOptoStimFunctionNet ()
- !CMultiwellOptoStimFunctionNet ()
- uint32_t GetWaveLengthInNanometer (uint16_t channel)
- uint32_t GetAbsMaxCurrentInMicroAmp (uint16_t channel)
- uint32_t GetMaxDurationHighCurrentInMicroSec (uint16_t channel)
- uint32 t GetMaxDutyCycleHighCurrent (uint16 t channel)
- uint32_t GetPermanentCurrentInMicroAmp (uint16_t channel)
- uint32_t GetColorRgb (uint16_t channel)
- String \(^\) GetColorStr (uint16_t channel)
- void SetWaveLengthInNanometer (uint16_t channel, uint32_t WaveLength_nm)
- void SetAbsMaxCurrentInMicroAmp (uint16_t channel, uint32_t AbsoluteMaxCurrent_uA)
- void SetMaxDurationHighCurrentInMicroSec (uint16_t channel, uint32_t AbsoluteMaxDuration_us)
- void SetMaxDutyCycleHighCurrent (uint16 t channel, uint32 t MaxDutyCycleHighCurrent)
- void SetPermanentCurrentInMicroAmp (uint16_t channel, uint32_t PermanentCurrent_uA)
- void SetColorRgb (uint16 t channel, uint32 t ColorRGB)
- void SetColorStr (uint16_t channel, String[^] ColorString)

Additional Inherited Members

11.75.1 Detailed Description

CMultiwellOptoStimFunctionNet is the class to access the optical properties of the Multiwell Optostim device

11.75.2 Constructor & Destructor Documentation

```
11.75.2.1 CMultiwellOptoStimFunctionNet() [1/2] CMultiwellOptoStimFunctionNet (
CMcsUsbNet^ mcsusb,
CMcsUsbFunctionPointerContainer^ pMultiwellOptoStimFunctionPointerContainer)
```

Initializes a new instance of the CMultiwellOptoStimFunctionNet class.

```
11.75.2.2 CMultiwellOptoStimFunctionNet() [2/2] CMultiwelloptoStimFunctionNet (
CMcsUsbNet^ mcsusb )
```

11.75.2.3 ~CMultiwellOptoStimFunctionNet() virtual ~CMultiwellOptoStimFunctionNet () [virtual]

```
11.75.2.4 "!CMultiwellOptoStimFunctionNet() !CMultiwellOptoStimFunctionNet ( )
```

11.75.3 Member Function Documentation

```
11.75.3.1 GetAbsMaxCurrentInMicroAmp() uint32_t GetAbsMaxCurrentInMicroAmp ( uint16_t channel)
```

Parameters

channel	the (analog) channel number

Returns

absolute max. current; unit: uA

channel	the (analog) channel number
channel	the (analog) channel number

Returns

RGB-value of LED color

Parameters

Returns

LED color as string

11.75.3.4 GetMaxDurationHighCurrentInMicroSec() uint32_t GetMaxDurationHighCurrentInMicroSec (uint16_t channel)

Parameters

channel the (analog) channel number

Returns

max. duration the LED can stand the abs. max current; unit: us

11.75.3.5 GetMaxDutyCycleHighCurrent() uint32_t GetMaxDutyCycleHighCurrent (uint16_t *channel*)

channel	the (analog) channel number

max. duty cycle at max. current; unit: 100*%

11.75.3.6 GetPermanentCurrentInMicroAmp() uint32_t GetPermanentCurrentInMicroAmp (uint16_t channel)

Parameters

channel	the (analog) channel number	
---------	-----------------------------	--

Returns

max. current the LED can stand when always switched on; unit: uA

11.75.3.7 GetWaveLengthInNanometer() uint32_t GetWaveLengthInNanometer (uint16_t *channel*)

Parameters

channel the (analog) channel number	oer
-------------------------------------	-----

Returns

wavelength of this channel's LEDs; unit: nm

channel	the (analog) channel number
AbsoluteMaxCurrent_uA	absolute max. current; unit: uA

channel	the (analog) channel number
ColorRGB	RGB-value of LED color

11.75.3.10 SetColorStr() void SetColorStr (uint16_t channel, String^ ColorString)

Parameters

channel	the (analog) channel number
ColorString	LED color as string

11.75.3.11 SetMaxDurationHighCurrentInMicroSec() void SetMaxDurationHighCurrentInMicroSec (uint16_t channel, uint32_t AbsoluteMaxDuration_us)

Parameters

channel	the (analog) channel number
AbsoluteMaxDuration_us	max. duration the LED can stand the abs. max current; unit: us

11.75.3.12 SetMaxDutyCycleHighCurrent() void SetMaxDutyCycleHighCurrent (uint16_t channel,

uint16_t channel,
uint32_t MaxDutyCycleHighCurrent)

Parameters

channel	the (analog) channel number
MaxDutyCycleHighCurrent	max. duty cycle at max. current; unit: 100*%

$\textbf{11.75.3.13} \quad \textbf{SetPermanentCurrentInMicroAmp()} \quad \texttt{void SetPermanentCurrentInMicroAmp} \quad \textbf{(}$

uint16_t channel,
uint32_t PermanentCurrent_uA)

channel	the (analog) channel number
PermanentCurrent_uA	max. current the LED can stand when always switched on; unit: uA

11.75.3.14 SetWaveLengthInNanometer() void SetWaveLengthInNanometer (uint16_t channel,

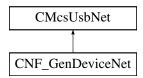
```
uint32_t WaveLength_nm )
```

Parameters

channel	the (analog) channel number
WaveLength_nm	wavelength of this channel's LEDs; unit: nm

11.76 CNF_GenDeviceNet Class Reference

Inheritance diagram for CNF_GenDeviceNet:



Public Member Functions

- CNF_GenDeviceNet (void)
- \sim CNF_GenDeviceNet (void)
- void Set_Values (unsigned int frequency, unsigned int amplitude)

Additional Inherited Members

11.76.1 Constructor & Destructor Documentation

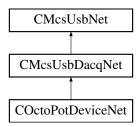
11.76.1.2
$$\sim$$
CNF_GenDeviceNet() \sim CNF_GenDeviceNet (

11.76.2 Member Function Documentation

```
11.76.2.1 Set_Values() void Set_Values (
         unsigned int frequency,
         unsigned int amplitude )
```

11.77 COctoPotDeviceNet Class Reference

Inheritance diagram for COctoPotDeviceNet:



Public Member Functions

- COctoPotDeviceNet (void)
- COctoPotDeviceNet (OnChannelData^ channelData, OnError^ error)
- uint32_t SetOutputRate (uint32_t rate)
- uint32_t SetBathclamp (unsigned int block, bool enable)
- uint32_t SetDacValue (int channel, int value)
- uint32_t SetDacAutoControl (unsigned int channel)
- uint32_t SetPidParameter (unsigned int channel, int const_p, int const_i, int shift_p, int shift_i)
- uint32_t SetRampParameter (unsigned int channel, int start, int min, int max, int slope, int slope2, int pause, unsigned int samples)
- uint32_t RampStart (int channelmap)
- uint32_t SetSineParameter (unsigned int channel, int amplitude)
- uint32_t SineStart (int channelmap)
- uint32_t SetPatternListEntry (unsigned int channel, unsigned int position, unsigned int duration, int value)
- uint32_t PatternListStart (int channelmap)
- uint32_t SetAdcOffset (unsigned int channel, int offset)
- uint32_t SetDacOffset (unsigned int channel, int offset)
- uint32 t ResetAdcOffset (unsigned int channel)
- uint32_t ResetDacOffset (unsigned int channel)
- uint32_t BurnAdcOffset ()
- uint32_t BurnDacOffset ()
- uint32 t GetAdcOffset (unsigned int channel, [System::Runtime::InteropServices::Out] int ^ offset)
- uint32_t GetDacOffset (unsigned int channel, [System::Runtime::InteropServices::Out] int ^ offset)
- uint32 t SetAmplificationSwitch (unsigned int channel, unsigned int state)
- uint32_t SetChannelSwitch (unsigned int channel, unsigned int state)
- uint32 t SetNumberOfChannels (unsigned int NumberOfChannels)
- uint32_t EnableDigitalIn (bool enable)
- uint32_t EnableTimestamp (bool enable)
- uint32 t EnableChecksum (bool enable)

Additional Inherited Members

11.77.1 Constructor & Destructor Documentation

```
11.77.1.1 COctoPotDeviceNet() [1/2] COctoPotDeviceNet (
             void )
11.77.1.2 COctoPotDeviceNet() [2/2] COctoPotDeviceNet (
             OnChannelData^ channelData,
             OnError<sup>∧</sup> error )
11.77.2 Member Function Documentation
11.77.2.1 BurnAdcOffset() uint32_t BurnAdcOffset ( )
11.77.2.2 BurnDacOffset() uint32_t BurnDacOffset ( )
11.77.2.3 EnableChecksum() uint32_t EnableChecksum (
             bool enable )
11.77.2.4 EnableDigitalIn() uint32_t EnableDigitalIn (
             bool enable )
11.77.2.5 EnableTimestamp() uint32_t EnableTimestamp (
             bool enable )
11.77.2.6 GetAdcOffset() uint32_t GetAdcOffset (
             unsigned int channel,
             [System::Runtime::InteropServices::Out] int ^{\wedge} offset )
11.77.2.7 GetDacOffset() uint32_t GetDacOffset (
             unsigned int channel,
             [System::Runtime::InteropServices::Out] int ^{\land} offset )
```

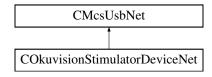
```
11.77.2.8 PatternListStart() uint32_t PatternListStart (
             int channelmap )
11.77.2.9 RampStart() uint32_t RampStart (
             int channelmap )
11.77.2.10 ResetAdcOffset() uint32_t ResetAdcOffset (
             unsigned int channel )
11.77.2.11 ResetDacOffset() uint32_t ResetDacOffset (
             unsigned int channel )
11.77.2.12 SetAdcOffset() uint32_t SetAdcOffset (
             unsigned int channel,
             int offset )
11.77.2.13 SetAmplificationSwitch() uint32_t SetAmplificationSwitch (
             unsigned int channel,
             unsigned int state )
11.77.2.14 SetBathclamp() uint32_t SetBathclamp (
             unsigned int block,
             bool enable )
11.77.2.15 SetChannelSwitch() uint32_t SetChannelSwitch (
             unsigned int channel,
             unsigned int state )
11.77.2.16 SetDacAutoControl() uint32_t SetDacAutoControl (
             unsigned int channel )
```

```
11.77.2.17 SetDacOffset() uint32_t SetDacOffset (
             unsigned int channel,
             int offset )
11.77.2.18 SetDacValue() uint32_t SetDacValue (
             int channel,
             int value )
11.77.2.19 SetNumberOfChannels() uint32_t SetNumberOfChannels (
             unsigned int NumberOfChannels )
11.77.2.20 SetOutputRate() uint32_t SetOutputRate (
             uint32_t rate )
11.77.2.21 SetPatternListEntry() uint32_t SetPatternListEntry (
             unsigned int channel,
             unsigned int position,
             unsigned int duration,
             int value )
11.77.2.22 SetPidParameter() uint32_t SetPidParameter (
             unsigned int channel,
             int const_p,
             int const_i,
             int shift_p,
             int shift_i )
11.77.2.23 SetRampParameter() uint32_t SetRampParameter (
             unsigned int channel,
             int start,
             int min,
             int max,
             int slope,
             int slope2,
             int pause,
             unsigned int samples )
```

```
11.77.2.24 SetSineParameter() uint32_t SetSineParameter (
          unsigned int channel,
          int amplitude )
11.77.2.25 SineStart() uint32_t SineStart (
          int channelmap )
```

11.78 COkuvisionStimulatorDeviceNet Class Reference

Inheritance diagram for COkuvisionStimulatorDeviceNet:



Public Member Functions

- · COkuvisionStimulatorDeviceNet (void)
- ~COkuvisionStimulatorDeviceNet (void)
- void SetPulseform (int channel, int current, int pulsewidth, int periode, int duration)
- void GetPulseform (int channel, [System::Runtime::InteropServices::Out] int% current, [System::Runtime
 ::InteropServices::Out] int% pulsewidth, [System::Runtime::InteropServices::Out] int% periode, [System::
 Runtime::InteropServices::Out] int% duration)
- void SetMaxPower (int channel, int power)
- int GetMaxPower (int channel)
- void SetMaxVoltage (int channel, int voltage)
- int GetMaxVoltage (int channel)
- void SetCheckVoltage (int channel, int voltage)
- int GetCheckVoltage (int channel)
- int GetVoltage (int channel)
- void SetDACOffset (int channel, int part, int offset)
- · int GetDACOffset (int channel, int part)
- void SetRTC (uint8_t year, uint8_t month, uint8_t day, uint8_t hour, uint8_t minute, uint8_t second)
- void GetRTC ([System::Runtime::InteropServices::Out] uint8_t% year, [System::Runtime::InteropServices
 ::Out] uint8_t% month, [System::Runtime::InteropServices::Out] uint8_t% day, [System::Runtime::Interop
 Services::Out] uint8_t% hour, [System::Runtime::InteropServices::Out] uint8_t% minute, [System::Runtime
 ::InteropServices::Out] uint8_t% second)
- void SetRTC (DateTime timestamp)
- DateTime GetRTC ()
- void GetStimulatorStatus ([System::Runtime::InteropServices::Out] int% startstop, [System::Runtime::
 — InteropServices::Out] int% last_error, [System::Runtime::InteropServices::Out] int% battery_status)
- void SetCurrentFactor (int channel, int factor)
- int GetCurrentFactor (int channel)

Additional Inherited Members

11.78.1 Constructor & Destructor Documentation

```
11.78.1.1 COkuvisionStimulatorDeviceNet() COkuvisionStimulatorDeviceNet (
             void )
11.78.1.2 ~COkuvisionStimulatorDeviceNet() ~COkuvisionStimulatorDeviceNet (
             void )
11.78.2 Member Function Documentation
11.78.2.1 GetCheckVoltage() int GetCheckVoltage (
            int channel )
11.78.2.2 GetCurrentFactor() int GetCurrentFactor (
             int channel )
11.78.2.3 GetDACOffset() int GetDACOffset (
            int channel,
            int part )
11.78.2.4 GetMaxPower() int GetMaxPower (
            int channel )
11.78.2.5 GetMaxVoltage() int GetMaxVoltage (
            int channel )
```

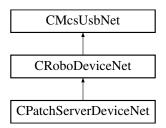
```
11.78.2.6 GetPulseform() void GetPulseform (
             int channel,
             [System::Runtime::InteropServices::Out] int% current,
             [{\tt System::Runtime::InteropServices::Out}] \  \, {\tt int\$} \  \, {\tt pulsewidth},
             [System::Runtime::InteropServices::Out] int% periode,
             [System::Runtime::InteropServices::Out] int% duration )
11.78.2.7 GetRTC() [1/2] DateTime GetRTC ( )
11.78.2.8 GetRTC() [2/2] void GetRTC (
             [System::Runtime::InteropServices::Out] uint8_t% year,
             [System::Runtime::InteropServices::Out] uint8_t% month,
             [System::Runtime::InteropServices::Out] uint8_t% day,
             [System::Runtime::InteropServices::Out] uint8_t% hour,
             [System::Runtime::InteropServices::Out] uint8_t% minute,
             [System::Runtime::InteropServices::Out] uint8_t% second )
11.78.2.9 GetStimulatorStatus() void GetStimulatorStatus (
             [System::Runtime::InteropServices::Out] int% startstop,
             [System::Runtime::InteropServices::Out] int% last_error,
             [System::Runtime::InteropServices::Out] int% battery_status )
11.78.2.10 GetVoltage() int GetVoltage (
             int channel )
11.78.2.11 SetCheckVoltage() void SetCheckVoltage (
             int channel,
             int voltage )
11.78.2.12 SetCurrentFactor() void SetCurrentFactor (
             int channel,
             int factor )
```

```
11.78.2.13 SetDACOffset() void SetDACOffset (
             int channel,
             int part,
             int offset )
11.78.2.14 SetMaxPower() void SetMaxPower (
             int channel,
             int power )
11.78.2.15 SetMaxVoltage() void SetMaxVoltage (
             int channel,
             int voltage )
11.78.2.16 SetPulseform() void SetPulseform (
             int channel,
             int current,
             int pulsewidth,
             int periode,
             int duration )
11.78.2.17 SetRTC() [1/2] void SetRTC (
             \texttt{DateTime} \ \textit{timestamp} \ )
11.78.2.18 SetRTC() [2/2] void SetRTC (
             uint8_t year,
             uint8_t month,
             uint8_t day,
             uint8_t hour,
             uint8_t minute,
             uint8_t second )
```

11.79 CPatchServerDeviceNet Class Reference

CPatchServerDeviceNet is the class to control the MCS PatchServer device

Inheritance diagram for CPatchServerDeviceNet:



Public Member Functions

CPatchServerDeviceNet (void)

Properties

• CMcsBus_SensorNet[^] Sensor [get]

Additional Inherited Members

11.79.1 Detailed Description

CPatchServerDeviceNet is the class to control the MCS PatchServer device

11.79.2 Constructor & Destructor Documentation

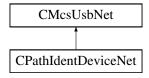
```
11.79.2.1 CPatchServerDeviceNet() CPatchServerDeviceNet (
```

11.79.3 Property Documentation

```
11.79.3.1 Sensor CMcsBus_SensorNet^ Sensor [get]
```

11.80 CPathIdentDeviceNet Class Reference

Inheritance diagram for CPathIdentDeviceNet:



Public Member Functions

- CPathIdentDeviceNet (void)
- ∼CPathIdentDeviceNet (void)
- void Set_Values (unsigned int frequency, unsigned int amplitude)

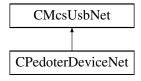
Additional Inherited Members

11.80.1 Constructor & Destructor Documentation

11.81 CPedoterDeviceNet Class Reference

unsigned int amplitude)

Inheritance diagram for CPedoterDeviceNet:



Public Member Functions

• CPedoterDeviceNet ()

Initializes a new instance of the CPedoterDeviceNet class.

- virtual ∼CPedoterDeviceNet ()
- !CPedoterDeviceNet ()
- uint32_t GetCommand (uint16_t Argument)

Get value from the pedoter device

void SetCommand (uint16_t Argument, uint32_t pData)

Set value on the pedoter device

Additional Inherited Members

11.81.1 Detailed Description

11.81.2 Constructor & Destructor Documentation

```
11.81.2.1 CPedoterDeviceNet() CPedoterDeviceNet ()
```

Initializes a new instance of the CPedoterDeviceNet class.

```
11.81.2.2 ~ CPedoterDeviceNet() virtual ~ CPedoterDeviceNet () [virtual]
```

```
11.81.2.3 "!CPedoterDeviceNet() !CPedoterDeviceNet ( )
```

11.81.3 Member Function Documentation

```
11.81.3.1 GetCommand() uint32_t GetCommand ( uint16_t Argument )
```

Get value from the pedoter device

Parameters

```
Argument argument
```

Returns

value

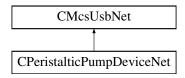
Set value on the pedoter device

Argument	argument
pData	value

11.82 CPeristalticPumpDeviceNet Class Reference

CPeristalticPumpDeviceNet is the class to control a Persistaltic Pump.

Inheritance diagram for CPeristalticPumpDeviceNet:



Public Member Functions

- CPeristalticPumpDeviceNet (void)

 Initialize a new instance of the CPeristalticPumpDeviceNet class.
- ~CPeristalticPumpDeviceNet (void)

Properties

• CMcsBus_MotorControlNet^ McsBus_MotorControl [get]

Additional Inherited Members

11.82.1 Detailed Description

CPeristalticPumpDeviceNet is the class to control a Persistaltic Pump.

11.82.2 Constructor & Destructor Documentation

11.82.2.1 CPeristalticPumpDeviceNet() CPeristalticPumpDeviceNet (void)

Initialize a new instance of the CPeristalticPumpDeviceNet class.

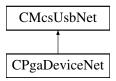
```
11.82.2.2 ~CPeristalticPumpDeviceNet() ~CPeristalticPumpDeviceNet (
```

11.82.3 Property Documentation

11.82.3.1 McsBus MotorControl CMcsBus_MotorControlNet^ McsBus_MotorControl [get]

11.83 CPgaDeviceNet Class Reference

Inheritance diagram for CPgaDeviceNet:



Public Member Functions

- CPgaDeviceNet ()
- ∼CPgaDeviceNet ()
- uint32_t GetNumFrequencyRanges ([System::Runtime::InteropServices::Out]int% numRanges)
- uint32_t GetFrequencyRange (int rangeIndex, [System::Runtime::InteropServices::Out]int% low, [System::

 Runtime::InteropServices::Out]int% high, [System::Runtime::InteropServices::Out]int% channels, [System
 ::Runtime::InteropServices::Out]int% gain)
- uint32_t GetNumAmplifications ([System::Runtime::InteropServices::Out]int% number)
- uint32_t GetAmplification (int index, [System::Runtime::InteropServices::Out]int% amplification, [System::
 Runtime::InteropServices::Out]int% poti1, [System::Runtime::InteropServices::Out]int% poti2)
- uint32 t DefineNumFrequencyRanges (int rnum)
- uint32 t DefineFrequencyRange (int index, int low, int high, int channels, int gain)
- uint32 t DefineNumAmplifications (int number)
- uint32_t DefineAmplification (int index, int amplification, int poti1, int poti2)
- uint32_t SetGain (int channel, int Gain, int poti1, int poti2)
- uint32_t GetGain (int channel, [System::Runtime::InteropServices::Out]int% Gain, [System::Runtime::← InteropServices::Out]int% poti1, [System::Runtime::InteropServices::Out]int% poti2)
- uint32 t ApplyGains ()

Additional Inherited Members

11.83.1 Constructor & Destructor Documentation

11.83.1.1 CPgaDeviceNet() CPgaDeviceNet ()

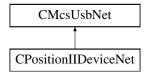
```
11.83.1.2 ~CPgaDeviceNet() ~CPgaDeviceNet ()
11.83.2 Member Function Documentation
11.83.2.1 ApplyGains() uint32_t ApplyGains ( )
11.83.2.2 DefineAmplification() uint32_t DefineAmplification (
             int index,
             int amplification,
             int poti1,
             int poti2 )
11.83.2.3 DefineFrequencyRange() uint32_t DefineFrequencyRange (
             int index,
             int low,
             int high,
             int channels,
             int gain )
11.83.2.4 DefineNumAmplifications() uint32_t DefineNumAmplifications (
             int number )
11.83.2.5 DefineNumFrequencyRanges() uint32_t DefineNumFrequencyRanges (
             int rnum )
11.83.2.6 GetAmplification() uint32_t GetAmplification (
             int index,
             [System::Runtime::InteropServices::Out] int% amplification,
             [System::Runtime::InteropServices::Out] int% poti1,
             [System::Runtime::InteropServices::Out] int% poti2 )
```

```
11.83.2.7 GetFrequencyRange() uint32_t GetFrequencyRange (
             int rangeIndex,
             [System::Runtime::InteropServices::Out] int% low,
             [System::Runtime::InteropServices::Out] int% high,
             [System::Runtime::InteropServices::Out] int% channels,
             [System::Runtime::InteropServices::Out] int% gain )
11.83.2.8 GetGain() uint32_t GetGain (
             int channel,
             [System::Runtime::InteropServices::Out] int% Gain,
             [System::Runtime::InteropServices::Out] int% poti1,
             [System::Runtime::InteropServices::Out] int% poti2 )
11.83.2.9 GetNumAmplifications() uint32_t GetNumAmplifications (
             [System::Runtime::InteropServices::Out] int% number )
11.83.2.10 GetNumFrequencyRanges() uint32_t GetNumFrequencyRanges (
             [System::Runtime::InteropServices::Out] int% numRanges )
11.83.2.11 SetGain() uint32_t SetGain (
             int channel,
             int Gain,
             int poti1,
             int poti2 )
```

11.84 CPositionIIDeviceNet Class Reference

CPositionIIDeviceNet is the class to control PositionII devices

Inheritance diagram for CPositionIIDeviceNet:



Public Member Functions

CPositionIIDeviceNet ()

Initializes a new instance of the CPositionIIDeviceNet class.

- virtual ∼CPositionIIDeviceNet ()
- !CPositionIIDeviceNet ()
- uint32 t GetCoilCommunication (uint16 t coil)

get if the communication to the coil is working

uint32_t GetOnOff (uint16_t coil)

get if the coil is switched on/off

void SwitchOnOff (uint16_t coil, uint32_t on)

switched the coild on of

uint32 t GetImplantState (uint16 t coil)

gets the implantat state

uint32_t GetImplantCurrentSetpoint (uint16_t coil)

sets the implant current setpoint

· void SetImplantCurrentSetpoint (uint16 t coil, uint32 t current)

gets the implant current setpoint

uint32 t GetPowerStrength (uint16 t coil)

sets the power for the trigger pulses

void SetPowerStrength (uint16_t coil, uint32_t power)

gets the power for the trigger pulses

· uint32 t GetImplantResult (uint16 t coil)

gets the last result of the implant pulse trigger

void GetRTC ([System::Runtime::InteropServices::Out]uint8_t% year, [System::Runtime::InteropServices::Out]uint8_t% month, [System::Runtime::InteropServices::Out]uint8_t% day, [System::Runtime::InteropServices::Out]uint8_t% minute, [System::Runtime::InteropServices::Out]uint8_t% minute, [System::Runtime::InteropServices::Out]uint8_t% minute, [System::Runtime::InteropServices::Out]uint8_t% second)

Get the RTC

void SetRTC (uint8 t year, uint8 t month, uint8 t day, uint8 t hour, uint8 t minute, uint8 t second)

Set the RTC

uint32_t GetStateDebugData (uint16_t coil)

get the debug queue state

void SetStateDebugData (uint16_t coil, uint32_t state)

clears/starts/stops the debug queue for a certain coil

void GetDebugData (uint16_t coil, [System::Runtime::InteropServices::Out]uint16_t% index, [System::Runtime::InteropServices::Out]uint16_t% voltage, [System::Runtime::InteropServices::Out]uint16_t% numberofpulses, [System::Runtime::InteropServices::Out]uint16_t% mediantime)

get the oldest debug entry for a certain coil

• uint32_t GetStateEventData ()

get the event queue state

void SetStateEventData (uint32_t state)

clears/starts/stops the event queue for a certain coil

void GetEventData ([System::Runtime::InteropServices::Out]uint16_t% index, [System::Runtime::Interop Services::Out]uint8_t% year, [System::Runtime::InteropServices::Out]uint8_t% month, [System::Runtime::InteropServices::Out]uint8_t% day, [System::Runtime::InteropServices::Out]uint8_t% hour, [System::Funtime::InteropServices::Out]uint8_t% second, [System::Runtime::InteropServices::Out]uint16_t% coil, [System::Runtime::InteropServices::Out]uint16_t% type, [System::Runtime::InteropServices::Out]uint16_t% value)

get the oldest event entry

Properties

• CRFFunctionNet^ RFFunction [get]

Additional Inherited Members

11.84.1 Detailed Description

CPositionIIDeviceNet is the class to control PositionII devices

11.84.2 Constructor & Destructor Documentation

```
11.84.2.1 CPositionIIDeviceNet() CPositionIIDeviceNet ()
```

Initializes a new instance of the CPositionIIDeviceNet class.

```
11.84.2.2 ~CPositionIIDeviceNet() virtual ~CPositionIIDeviceNet ( ) [virtual]
```

```
11.84.2.3 "!CPositionIIDeviceNet() !CPositionIIDeviceNet ( )
```

11.84.3 Member Function Documentation

```
11.84.3.1 GetCoilCommunication() uint32_t GetCoilCommunication ( uint16_t coil)
```

get if the communication to the coil is working

Parameters

coil the coil

Returns

is communicating

11.84.3.2 GetDebugData() void GetDebugData (

```
uint16_t coil,
[System::Runtime::InteropServices::Out] uint16_t% index,
[System::Runtime::InteropServices::Out] uint16_t% voltage,
[System::Runtime::InteropServices::Out] uint16_t% numberofpulses,
[System::Runtime::InteropServices::Out] uint16_t% mediantime)
```

get the oldest debug entry for a certain coil

Parameters

coil	the coil
index	the debug entry index number
voltage	the voltage applied
numberofpulses	the number of pulses detected
mediantime	the median time between pulses

11.84.3.3 GetEventData() void GetEventData (

```
[System::Runtime::InteropServices::Out] uint16_t% index,
[System::Runtime::InteropServices::Out] uint8_t% year,
[System::Runtime::InteropServices::Out] uint8_t% month,
[System::Runtime::InteropServices::Out] uint8_t% day,
[System::Runtime::InteropServices::Out] uint8_t% hour,
[System::Runtime::InteropServices::Out] uint8_t% minute,
[System::Runtime::InteropServices::Out] uint8_t% second,
[System::Runtime::InteropServices::Out] uint16_t% coil,
[System::Runtime::InteropServices::Out] uint16_t% type,
[System::Runtime::InteropServices::Out] uint16_t% value)
```

get the oldest event entry

Parameters

index	the event index number
year	the year
month	the month
day	the day
hour	the hour
minute	the minute
second	the second
coil	the coil
type	the event type
value	the even value

```
11.84.3.4 GetImplantCurrentSetpoint() uint32_t GetImplantCurrentSetpoint ( uint16_t coil )
```

sets the implant current setpoint

ь.					
Pа	ra	m	eı	ıе	rs

<i>coil</i> ∣ th

the current

```
11.84.3.5 GetImplantResult() uint32_t GetImplantResult ( uint16_t coil )
```

gets the last result of the implant pulse trigger

Parameters

```
coil the coil
```

Returns

the result

```
11.84.3.6 GetImplantState() uint32_t GetImplantState ( uint16_t coil )
```

gets the implantat state

Parameters

```
coil the coil
```

Returns

the state

```
11.84.3.7 GetOnOff() uint32_t GetOnOff ( uint16_t coil )
```

get if the coil is switched on/off

Parameters

coil the coil

```
0 = off, 1 = on
```

11.84.3.8 GetPowerStrength() uint32_t GetPowerStrength (uint16_t coil)

sets the power for the trigger pulses

Parameters

coil	the coil
------	----------

Returns

the power

11.84.3.9 GetRTC() void GetRTC (

```
[System::Runtime::InteropServices::Out] uint8_t% year,
[System::Runtime::InteropServices::Out] uint8_t% month,
[System::Runtime::InteropServices::Out] uint8_t% day,
[System::Runtime::InteropServices::Out] uint8_t% hour,
[System::Runtime::InteropServices::Out] uint8_t% minute,
[System::Runtime::InteropServices::Out] uint8_t% second )
```

Get the RTC

Parameters

year	the year
month	the month
day	the day
hour	the hour
minute	the minute
second	the second

11.84.3.10 GetStateDebugData() uint32_t GetStateDebugData (uint16_t coil)

get the debug queue state

Parameters

coil the coil

the state

```
11.84.3.11 GetStateEventData() uint32_t GetStateEventData ( )
```

get the event queue state

Returns

the state

gets the implant current setpoint

Parameters

coil	the coil
current	the current

gets the power for the trigger pulses

coil	the coil
power	the power

Set the RTC

year	the year
month	the month
day	the day
hour	the hour
minute	the minute
second	the second

clears/starts/stops the debug queue for a certain coil

Parameters

coil	the coil
state	clear/start/stop

11.84.3.16 SetStateEventData() void SetStateEventData (uint32_t state)

clears/starts/stops the event queue for a certain coil

Parameters

state	clear/start/stop

switched the coild on of

coil	the coil
on	0 = off, 1 = on

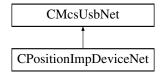
11.84.4 Property Documentation

11.84.4.1 RFFunction CRFFunctionNet^ RFFunction [get]

11.85 CPositionImpDeviceNet Class Reference

CPositionImpDeviceNet is the class to access the Position/Imp devices

Inheritance diagram for CPositionImpDeviceNet:



Public Member Functions

CPositionImpDeviceNet ()

Initializes a new instance of the CPositionImpDeviceNet class.

- virtual ∼CPositionImpDeviceNet ()
- !CPositionImpDeviceNet ()
- void ConnectImp (uint32_t id)

Connect to a Imp device with a certain ID

uint32_t ConnectedImp ()

The ID of the connected Imp device

• int32_t GetRFFrequency ()

Gets currently used RF frequency

void SetRFFrequency (int32_t frequency)

Sets the current RF frequency

• uint32_t GetDeviceList (int32_t index)

Gets the device list

• void SetDeviceList (int32_t index, uint32_t id)

Sets the device list

• uint32_t GetImpId ()

Gets the ID of the impedance measure device

void SetImpId (uint32_t id)

Sets the ID of the impedance measure device

Additional Inherited Members

11.85.1 Detailed Description

CPositionImpDeviceNet is the class to access the Position/Imp devices

11.85.2 Constructor & Destructor Documentation

```
11.85.2.1 CPositionImpDeviceNet() CPositionImpDeviceNet ()
```

Initializes a new instance of the CPositionImpDeviceNet class.

```
11.85.2.2 ~CPositionImpDeviceNet() virtual ~CPositionImpDeviceNet () [virtual]
```

```
11.85.2.3 "!CPositionImpDeviceNet() !CPositionImpDeviceNet ( )
```

11.85.3 Member Function Documentation

11.85.3.1 ConnectedImp() uint32_t ConnectedImp ()

The ID of the connected Imp device

Returns

The ID

```
11.85.3.2 ConnectImp() void ConnectImp ( uint32_t id )
```

Connect to a Imp device with a certain ID

Parameters

id The ID

Gets the device list

index th	e index
----------	---------

Returns

the ID

```
11.85.3.4 GetImpId() uint32_t GetImpId ( )
```

Gets the ID of the impedance measure device

Returns

the ID

```
11.85.3.5 GetRFFrequency() int32_t GetRFFrequency ( )
```

Gets currently used RF frequency

Returns

The frequency

Sets the device list

Parameters

index	the index
id	the ID

```
11.85.3.7 SetImpId() void SetImpId ( uint32\_t id )
```

Sets the ID of the impedance measure device

id the ID

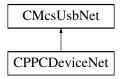
Sets the current RF frequency

Parameters

frequency The frequency

11.86 CPPCDeviceNet Class Reference

Inheritance diagram for CPPCDeviceNet:



Public Member Functions

• CPPCDeviceNet (void)

Properties

- CPPCFunctionNet^ PPCFunction [get]
- CMcsBusNet^ McsBus [get]
- CMcsBus_MotorControlNet^ McsBus_MotorControl [get]
- CMcsBus_SensorNet^ McsBus_Sensor [get]

Additional Inherited Members

11.86.1 Constructor & Destructor Documentation

11.86.1.1 CPPCDeviceNet() CPPCDeviceNet (void)

11.86.2 Property Documentation

```
11.86.2.1 McsBus CMcsBusNet^ McsBus [get]
```

11.86.2.2 McsBus_MotorControl CMcsBus_MotorControlNet^ McsBus_MotorControl [get]

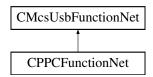
11.86.2.3 McsBus_Sensor CMcsBus_SensorNet^ McsBus_Sensor [get]

11.86.2.4 **PPCFunction** CPPCFunctionNet^ PPCFunction [get]

11.87 CPPCFunctionNet Class Reference

CPPCFunctionNet is the class to access the PPC (high precision Patch Peristalic patch Pump

Inheritance diagram for CPPCFunctionNet:



Public Member Functions

CPPCFunctionNet (CMcsUsbNet[^] mcsusb, CMcsUsbFunctionPointerContainer[^] pPPCFunctionPointer←
 Container)

Initializes a new instance of the CPPCFunctionNet class.

- CPPCFunctionNet (CMcsUsbNet[^] mcsusb)
- virtual ~CPPCFunctionNet ()
- !CPPCFunctionNet ()
- int GetPumpSpeedUnit (uint16_t channel)

Reads the Pump Speed Unit

void SetPumpSpeedUnit (uint16_t channel, int SpeedUnit)

Writes the Pump Speed Unit

PP_Pump_Mode_Type_EnumNet GetPumpModeType (uint16_t channel)

Reads the Pump Mode Type.

• void SetPumpModeType (uint16_t channel, PP_Pump_Mode_Type_EnumNet PumpMode)

Writes the config string from the device.

void GetAnalogVoltageRange (uint16_t channel, [System::Runtime::InteropServices::Out]uint16_t% min_
 voltage, [System::Runtime::InteropServices::Out]uint16_t% max_voltage)

Reads the Analog Input Voltage Range

void SetAnalogVoltageRange (uint16_t channel, uint16_t min_voltage, uint16_t max_voltage)

Writes the Analog Input Voltage Range

void GetPressureRange (uint16_t channel, [System::Runtime::InteropServices::Out]int32_t% lower_← pressure, [System::Runtime::InteropServices::Out]int32_t% upper pressure)

Get the pressure range that is used between the analog voltage or the digital states

void SetPressureRange (uint16 t channel, int32 t lower pressure, int32 t upper pressure)

Get the pressure range that is used between the analog voltage or the digital states

• uint16_t GetSupplyVoltage ()

Reads the current supply voltage in mV

uint16_t GetAnalogVoltage (uint16_t channel)

Reads the current analog voltage

uint16_t GetDigitalIn (uint16_t channel)

Reads the digital input state

int GetValveActive (uint16_t valve)

Gets the valve active/inactive state

void SetValveActive (uint16 t valve, int valveActive)

Sets the valve active/inactive state

void SetPressureOffset ()

Sets the pressure offset

void LoadPressure (int32 t pressure, uint32 t options)

Loads the reservoir with a pressure

void IsBusy ([System::Runtime::InteropServices::Out]int16_t% task, [System::Runtime::InteropServices::
 Out]int16_t% wait)

Is the PPC busy with a task

void FirePressurePulse (int32_t duration, int32_t nextpressure)

Fire a pressure pulse from the reservoir

int32_t MeasureReservoir ()

Measures the reservoir pressure

Additional Inherited Members

11.87.1 Detailed Description

CPPCFunctionNet is the class to access the PPC (high precision Patch Peristalic patch Pump

11.87.2 Constructor & Destructor Documentation

Initializes a new instance of the CPPCFunctionNet class.

```
11.87.2.2 CPPCFunctionNet() [2/2] CPPCFunctionNet (
             CMcsUsbNet^ mcsusb )
11.87.2.3 ~CPPCFunctionNet() virtual ~CPPCFunctionNet ( ) [virtual]
11.87.2.4 "!CPPCFunctionNet() !CPPCFunctionNet ( )
11.87.3 Member Function Documentation
11.87.3.1 FirePressurePulse() void FirePressurePulse (
             int32_t duration,
             int32_t nextpressure )
Fire a pressure pulse from the reservoir
Parameters
 duration
               The pulse duration (valves open)
 nextpressure
               The next pressure
11.87.3.2 GetAnalogVoltage() uint16_t GetAnalogVoltage (
             uint16_t channel )
Reads the current analog voltage
Parameters
 channel
           The Channel Number
Returns
```

${\bf 11.87.3.3} \quad {\bf GetAnalogVoltageRange()} \quad {\tt void GetAnalogVoltageRange ()} \\$

uint16_t channel,

The Analog Voltage

```
[System::Runtime::InteropServices::Out] uint16_t% min_voltage, [System::Runtime::InteropServices::Out] uint16_t% max_voltage)
```

Reads the Analog Input Voltage Range

channel	The Channel Number
min_voltage	The voltage that should be seen as the minimum voltage
max_voltage	The voltage that should be seen as the maximum voltage

11.87.3.4 **GetDigitalIn()** uint16_t GetDigitalIn (uint16_t channel)

Reads the digital input state

Parameters

Returns

The Digital State

Get the pressure range that is used between the analog voltage or the digital states

Parameters

channel	The Channel Number
lower_pressure	The lower border of the pressure range
upper_pressure	The upper border of the pressure range

```
11.87.3.6 GetPumpModeType() PP_Pump_Mode_Type_EnumNet GetPumpModeType ( uint16_t channel )
```

Reads the Pump Mode Type.

channel	The Channel Number

Returns

The Pump Mode Type.

```
11.87.3.7 GetPumpSpeedUnit() int GetPumpSpeedUnit ( uint16_t channel )
```

Reads the Pump Speed Unit

Parameters

channel	The Channel Number
---------	--------------------

Returns

The Speed Unit

11.87.3.8 GetSupplyVoltage() uint16_t GetSupplyVoltage ()

Reads the current supply voltage in mV

Returns

The supply voltage

```
11.87.3.9 GetValveActive() int GetValveActive ( uint16\_t \ valve )
```

Gets the valve active/inactive state

Parameters

```
valve The valve number
```

Returns

The valve state

```
11.87.3.10 IsBusy() void IsBusy (

[System::Runtime::InteropServices::Out] int16_t% task,

[System::Runtime::InteropServices::Out] int16_t% wait )
```

Is the PPC busy with a task

Parameters

task	The task state
wait	The wait state

Loads the reservoir with a pressure

Parameters

pressure	The pressure
options	The options: end with 0=regulate on patch 1=regulate on reservoir

11.87.3.12 MeasureReservoir() int32_t MeasureReservoir ()

Measures the reservoir pressure

Returns

The pressure

Writes the Analog Input Voltage Range

Parameters

channel The Channel Number	
min_voltage	
max_voltage	The voltage that should be seen as the maximum voltage

11.87.3.14 SetPressureOffset() void SetPressureOffset ()

Sets the pressure offset

Get the pressure range that is used between the analog voltage or the digital states

Parameters

channel	The Channel Number
lower_pressure	The lower border of the pressure range
upper_pressure	The upper border of the pressure range

Writes the config string from the device.

Parameters

channel	The Channel Number
PumpMode	The Pump Mode Type.

Writes the Pump Speed Unit

Parameters

channel	The Channel Number
SpeedUnit	The Speed Unit

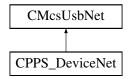
Sets the valve active/inactive state

Parameters

valve	The valve number
valveActive	The valve state

11.88 CPPS_DeviceNet Class Reference

Inheritance diagram for CPPS_DeviceNet:



Public Member Functions

CPPS_DeviceNet (void)

Properties

- CPPS_FunctionNet^ PPS_Function [get]
- CMcsBusNet^ McsBus [get]
- CMcsBus_MotorControlNet[^] McsBus_MotorControl [get]
- CMcsBus_SensorNet^ McsBus_Sensor [get]

Additional Inherited Members

11.88.1 Constructor & Destructor Documentation

```
11.88.1.1 CPPS_DeviceNet() CPPS_DeviceNet (
void )
```

11.88.2 Property Documentation

```
11.88.2.1 McsBus CMcsBusNet^ McsBus [get]
```

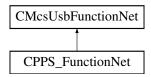
11.88.2.2 McsBus_MotorControl CMcsBus_MotorControlNet^ McsBus_MotorControl [get]

11.88.2.3 McsBus_Sensor CMcsBus_SensorNet^ McsBus_Sensor [get]

11.88.2.4 PPS_Function CPPS_FunctionNet^ PPS_Function [get]

11.89 CPPS_FunctionNet Class Reference

Inheritance diagram for CPPS FunctionNet:



Public Member Functions

- CPPS_FunctionNet (CMcsUsbNet[^] mcsusb, CMcsUsbFunctionPointerContainer[^] cPPS_FunctionPointer←
 Container)
- CPPS FunctionNet (CMcsUsbNet[^] mcsusb)
- void SetPumpMaxSpeed (unsigned short index, unsigned short maxspeed)
- unsigned short GetPumpMaxSpeed (unsigned short index)
- void SetPumpSpeedUnit (unsigned short index, int speedunit)
- int GetPumpSpeedUnit (unsigned short index)
- void SetPumpModeType (unsigned short index, PP_Pump_Mode_Type_EnumNet type)
- PP_Pump_Mode_Type_EnumNet GetPumpModeType (unsigned short index)
- void SetPumpCouple (unsigned int i)
- unsigned int GetPumpCouple ()
- void SetPumpEnableSpeedRatio (unsigned int enable)
- unsigned int GetPumpEnableSpeedRatio ()
- void SetPumpManualOnOff (unsigned short index, unsigned int onoff)
- unsigned int GetPumpManualOnOff (unsigned short index)
- · void SetPumpFunctionSpeeds (unsigned short index, short offspeed, short onspeed)
- void GetPumpFunctionSpeeds (unsigned short index, [System::Runtime::InteropServices::Out]short% offspeed, [System::Runtime::InteropServices::Out]short% onspeed)
- void SetPumpSpeedRatio (int ratio)
- int GetPumpSpeedRatio ()
- void SetPumpFastOnOff (unsigned short index, unsigned int onoff)
- unsigned int GetPumpFastOnOff (unsigned short index)
- void SetPumpFastSpeed (unsigned short index, short fastspeed)
- short GetPumpFastSpeed (unsigned short index)
- void SetAnalogVoltages (unsigned short index, unsigned short minvoltage, unsigned short maxvoltage)
- void GetAnalogVoltages (unsigned short index, [System::Runtime::InteropServices::Out]unsigned short% minvoltage, [System::Runtime::InteropServices::Out]unsigned short% maxvoltage)
- void SetUseBubble (unsigned short index, unsigned int usebubble)
- unsigned int GetUseBubble (unsigned short index)
- unsigned short GetSupplyVoltage ()
- unsigned short GetAnalogVoltage (unsigned short index)
- unsigned short GetDigitalIn (unsigned short index)
- unsigned short GetBubbleState ()

Additional Inherited Members

11.89.1 Constructor & Destructor Documentation

```
11.89.1.1 CPPS_FunctionNet() [1/2] CPPS_FunctionNet (
             CMcsUsbNet^ mcsusb,
             {\tt CMcsUsbFunctionPointerContainer}^{\wedge} \ \textit{cPPS\_FunctionPointerContainer} \ )
11.89.1.2 CPPS_FunctionNet() [2/2] CPPS_FunctionNet (
             CMcsUsbNet^ mcsusb )
11.89.2 Member Function Documentation
11.89.2.1 GetAnalogVoltage() unsigned short GetAnalogVoltage (
             unsigned short index )
11.89.2.2 GetAnalogVoltages() void GetAnalogVoltages (
             unsigned short index,
             [System::Runtime::InteropServices::Out] unsigned short% minvoltage,
             [System::Runtime::InteropServices::Out] unsigned short% maxvoltage )
11.89.2.3 GetBubbleState() unsigned short GetBubbleState ( )
11.89.2.4 GetDigitalIn() unsigned short GetDigitalIn (
             unsigned short index)
11.89.2.5 GetPumpCouple() unsigned int GetPumpCouple ( )
11.89.2.6 GetPumpEnableSpeedRatio() unsigned int GetPumpEnableSpeedRatio ( )
11.89.2.7 GetPumpFastOnOff() unsigned int GetPumpFastOnOff (
             unsigned short index)
```

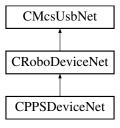
```
11.89.2.8 GetPumpFastSpeed() short GetPumpFastSpeed (
             unsigned short index)
\textbf{11.89.2.9} \quad \textbf{GetPumpFunctionSpeeds()} \quad \texttt{void GetPumpFunctionSpeeds} \quad \textbf{(}
             unsigned short index,
              [System::Runtime::InteropServices::Out] short% offspeed,
              [System::Runtime::InteropServices::Out] short% onspeed )
11.89.2.10 GetPumpManualOnOff() unsigned int GetPumpManualOnOff (
             unsigned short index)
11.89.2.11 GetPumpMaxSpeed() unsigned short GetPumpMaxSpeed (
             unsigned short index)
11.89.2.12 GetPumpModeType() PP_Pump_Mode_Type_EnumNet GetPumpModeType (
             unsigned short index )
11.89.2.13 GetPumpSpeedRatio() int GetPumpSpeedRatio ( )
11.89.2.14 GetPumpSpeedUnit() int GetPumpSpeedUnit (
             unsigned short index )
11.89.2.15 GetSupplyVoltage() unsigned short GetSupplyVoltage ( )
11.89.2.16 GetUseBubble() unsigned int GetUseBubble (
             unsigned short index )
```

```
11.89.2.17 SetAnalogVoltages() void SetAnalogVoltages (
             unsigned short index,
             unsigned short minvoltage,
             unsigned short {\it maxvoltage} )
11.89.2.18 SetPumpCouple() void SetPumpCouple (
             unsigned int i )
11.89.2.19 SetPumpEnableSpeedRatio() void SetPumpEnableSpeedRatio (
             unsigned int enable )
11.89.2.20 SetPumpFastOnOff() void SetPumpFastOnOff (
             unsigned short index,
             unsigned int onoff )
11.89.2.21 SetPumpFastSpeed() void SetPumpFastSpeed (
             unsigned short index,
             short fastspeed )
11.89.2.22 SetPumpFunctionSpeeds() void SetPumpFunctionSpeeds (
             unsigned short index,
             short offspeed,
             short onspeed )
11.89.2.23 SetPumpManualOnOff() void SetPumpManualOnOff (
             unsigned short index,
             unsigned int onoff )
11.89.2.24 SetPumpMaxSpeed() void SetPumpMaxSpeed (
             unsigned short index,
             unsigned short maxspeed )
```

11.90 CPPSDeviceNet Class Reference

CPPS4plus1DeviceNet is the to control the MCS HLA device

Inheritance diagram for CPPSDeviceNet:



Public Member Functions

• CPPSDeviceNet (void)

Additional Inherited Members

11.90.1 Detailed Description

CPPS4plus1DeviceNet is the to control the MCS HLA device

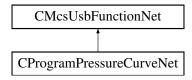
11.90.2 Constructor & Destructor Documentation

```
11.90.2.1 CPPSDeviceNet() CPPSDeviceNet (
void )
```

11.91 CProgramPressureCurveNet Class Reference

CProgramPressureCurveNet is the class to program pressure curves

Inheritance diagram for CProgramPressureCurveNet:



Public Member Functions

- CProgramPressureCurveNet (CMcsUsbNet[^] mcsusb)
 Initializes a new instance of the CPulseGeneratorFunctionNet class.
- virtual ~CProgramPressureCurveNet (void)
- !CProgramPressureCurveNet (void)
- void Program (unsigned char busnumber, unsigned char busaddress, int32_t channel, array< int32_t $>^{\wedge}$ pressures, array< int32_t $>^{\wedge}$ steps, array< int16_t $>^{\wedge}$ durations)
- void SetRepeats (unsigned char busnumber, unsigned char busaddress, int32_t channel, uint32_t repeats)
- unsigned int GetRepeats (unsigned char busnumber, unsigned char busaddress, int32_t channel)

Additional Inherited Members

11.91.1 Detailed Description

CProgramPressureCurveNet is the class to program pressure curves

11.91.2 Constructor & Destructor Documentation

```
11.91.2.1 CProgramPressureCurveNet() CProgramPressureCurveNet ( CMcsUsbNet^ mcsusb )
```

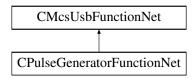
Initializes a new instance of the CPulseGeneratorFunctionNet class.

```
11.91.2.2 ~ CProgramPressureCurveNet() virtual ~ CProgramPressureCurveNet (
             void ) [virtual]
11.91.2.3 "!CProgramPressureCurveNet() !CProgramPressureCurveNet (
             void )
11.91.3 Member Function Documentation
11.91.3.1 GetRepeats() unsigned int GetRepeats (
             unsigned char busnumber,
             unsigned char busaddress,
             int32_t channel )
11.91.3.2 Program() void Program (
             unsigned char busnumber,
             unsigned char busaddress,
             int32_t channel,
             array< int32_t >^{\wedge} pressures,
             array< int32_t >^{\land} steps,
             array < int16_t >^{\wedge} durations)
11.91.3.3 SetRepeats() void SetRepeats (
             unsigned char busnumber,
             unsigned char busaddress,
             int32_t channel,
             uint32_t repeats )
```

11.92 CPulseGeneratorFunctionNet Class Reference

CPulseGeneratorFunctionNet is the class to control the pulse generator for video tracking

Inheritance diagram for CPulseGeneratorFunctionNet:



Public Member Functions

CPulseGeneratorFunctionNet (CMcsUsbNet[^] mcsusb, CMcsUsbFunctionPointerContainer[^] pPulse←
 GeneratorFunctionPointerContainer)

Initializes a new instance of the CPulseGeneratorFunctionNet class.

- CPulseGeneratorFunctionNet (CMcsUsbNet[^] mcsusb)
- virtual ~CPulseGeneratorFunctionNet ()
- !CPulseGeneratorFunctionNet ()
- int32_t GetPeriod (int32_t generator_number)

Reads the generator period

• void SetPeriod (int32_t generator_number, int32_t period_in_samples)

Writes the generator period

• int32_t GetPulseLength (int32_t generator_number)

Reads the generator pulse length

void SetPulseLength (int32_t generator_number, int32_t pulselength_in_10us)

Writes the generator pulse length

void GetModeSelect (int32_t generator_number, [System::Runtime::InteropServices::Out]PulseGenerator_Mode_EnumNet% mode, [System::Runtime::InteropServices::Out]int32_t% digitalchannel)

Reads the generator mode

void SetModeSelect (int32_t generator_number, PulseGenerator_Mode_EnumNet mode, int32_t digitalchannel)

Writes the generator mode

Additional Inherited Members

11.92.1 Detailed Description

CPulseGeneratorFunctionNet is the class to control the pulse generator for video tracking

11.92.2 Constructor & Destructor Documentation

```
11.92.2.1 CPulseGeneratorFunctionNet() [1/2] CPulseGeneratorFunctionNet (

CMcsUsbNet^ mcsusb,

CMcsUsbFunctionPointerContainer^ pPulseGeneratorFunctionPointerContainer )
```

Initializes a new instance of the CPulseGeneratorFunctionNet class.

```
11.92.2.2 CPulseGeneratorFunctionNet() [2/2] CPulseGeneratorFunctionNet (
CMcsUsbNet^ mcsusb )
```

```
11.92.2.3 ~CPulseGeneratorFunctionNet() virtual ~CPulseGeneratorFunctionNet ( ) [virtual]
```

11.92.2.4 "!CPulseGeneratorFunctionNet() !CPulseGeneratorFunctionNet ()

11.92.3 Member Function Documentation

Reads the generator mode

Parameters

generator_number	The generator number
mode	The generator mode
digitalchannel	The digital in channel used as gate

Reads the generator period

Parameters

generator_number	The generator number
------------------	----------------------

Returns

The period

Reads the generator pulse length

Parameters

generator_number	The generator number
------------------	----------------------

Returns

The pulse length

Writes the generator mode

Parameters

generator_number	The generator number
mode	The generator mode
digitalchannel	The digital in channel used as gate

Writes the generator period

Parameters

generator_number	The generator number
period_in_samples	The period

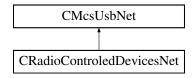
Writes the generator pulse length

Parameters

generator_number	The generator number
pulselength_in_10us	The pulse length

11.93 CRadioControledDevicesNet Class Reference

Inheritance diagram for CRadioControledDevicesNet:



Public Member Functions

- CRadioControledDevicesNet (void)
- bool HasRadioControl ()
- array< unsigned short > $^{\wedge}$ GetDeviceNames ()
- void ConnectDevice (unsigned short sn)
- void DisConnectDevice ()
- bool StillConnected ()
- void SetFrequency (unsigned short frequency)
- unsigned short GetFrequency ()

Protected Member Functions

• CRadioControledDevicesNet (CRadioControledDevices *pRadioControled)

Additional Inherited Members

11.93.1 Constructor & Destructor Documentation

```
11.93.1.1 CRadioControledDevicesNet() [1/2] CRadioControledDevicesNet ( void )
```

```
11.93.1.2 CRadioControledDevicesNet() [2/2] CRadioControledDevicesNet (
CRadioControledDevices * pRadioControled ) [protected]
```

11.93.2 Member Function Documentation

```
11.93.2.1 ConnectDevice() void ConnectDevice (
unsigned short sn )
```

11.93.2.2 DisConnectDevice() void DisConnectDevice ()

11.94 CCMOSMeaDeviceNet::CRegionOfInterestRect Class Reference

Public Member Functions

- CRegionOfInterestRect (int left, int top, int right, int bottom)
- CRegionOfInterestRect ^ DeepCopy ()

Public Attributes

- int m_Left
- int m_Top
- int m_Right
- int m Bottom

11.94.1 Constructor & Destructor Documentation

```
11.94.1.1 CRegionOfInterestRect() CRegionOfInterestRect (
          int left,
          int top,
          int right,
          int bottom )
```

11.94.2 Member Function Documentation

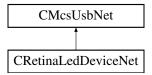
```
11.94.2.1 DeepCopy() CRegionOfInterestRect ^ DeepCopy ( )
```

11.94.3 Member Data Documentation

```
11.94.3.1 m\_Bottom int m\_Bottom
```

11.95 CRetinaLedDeviceNet Class Reference

Inheritance diagram for CRetinaLedDeviceNet:



Public Member Functions

- CRetinaLedDeviceNet ()
- \sim CRetinaLedDeviceNet ()
- unsigned int SetTrigger (int enable)
- unsigned int SetLED (unsigned long long pattern)
- unsigned int SetTablepointer (int position)
- unsigned int GetTablepointer (int % position)
- unsigned int ClearTable ()
- unsigned int AddTableEntry (unsigned long long pattern)
- unsigned int AddLoopEntry (unsigned short repeats, unsigned short steps_back)
- unsigned int SetRepeat (int repeat)
- unsigned int SetLumi (int lumi)
- unsigned int SetPersistency (unsigned int persistency)

Additional Inherited Members

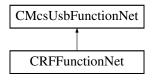
```
11.95.1 Constructor & Destructor Documentation
```

```
11.95.1.1 CRetinaLedDeviceNet() CRetinaLedDeviceNet ()
11.95.1.2 ~ CRetinaLedDeviceNet() ~ CRetinaLedDeviceNet ()
11.95.2 Member Function Documentation
11.95.2.1 AddLoopEntry() unsigned int AddLoopEntry (
            unsigned short repeats,
             unsigned short steps_back )
11.95.2.2 AddTableEntry() unsigned int AddTableEntry (
             unsigned long long pattern )
11.95.2.3 ClearTable() unsigned int ClearTable ( )
11.95.2.4 GetTablepointer() unsigned int GetTablepointer (
             int % position )
11.95.2.5 SetLED() unsigned int SetLED (
             unsigned long long pattern )
11.95.2.6 SetLumi() unsigned int SetLumi (
            int lumi )
```

11.96 CRFFunctionNet Class Reference

CRFFunctionNet is the class to control RF devices

Inheritance diagram for CRFFunctionNet:



Public Member Functions

CRFFunctionNet (CMcsUsbNet[^] mcsusb, CMcsUsbFunctionPointerContainer[^] pRFFunctionPointer
 — Container)

Initializes a new instance of the CRFFunctionNet class.

- CRFFunctionNet (CMcsUsbNet^{\(\Lambda\)} mcsusb)
- virtual ∼CRFFunctionNet ()
- !CRFFunctionNet ()
- uint32_t GetBaseFrequency (CFirmwareDestinationNet destination)

gets the base advertise frequency

void SetBaseFrequency (CFirmwareDestinationNet destination, uint32_t frequency)

sets the base advertise frequency

• uint32_t GetWorkingFrequency ()

gets the working frequency

void SetWorkingFrequency (uint32_t frequency)

sets the working frequency

array< uint32 t > ^ GetAvailableDeviceListEx (int list Length)

get a list of available devices

• array< uint32_t > $^{\wedge}$ GetAvailableDeviceList ()

```
get a list of available devices

    array< uint32_t > ^ GetAvailableStateListEx (int list_Length)

         get a list of the states of the available devices

    array< uint32_t > ^ GetAvailableStateList ()

         get a list of the states of the available devices

    void Connect (uint32_t sn)

         connect to a RF device, use 0 to disconnect
    • uint32_t GetConnectedDevice ()
         get connect RF device, 0 = no device connected

    uint32_t GetState ()

         get connection state

    void SetTestMode (uint32_t mode)

         set test mode
    • uint32_t GetTestMode ()
         gets test mode
Additional Inherited Members
11.96.1 Detailed Description
CRFFunctionNet is the class to control RF devices
11.96.2 Constructor & Destructor Documentation
11.96.2.1 CRFFunctionNet() [1/2] CRFFunctionNet (
               CMcsUsbNet<sup>∧</sup> mcsusb,
               CMcsUsbFunctionPointerContainer^ pRFFunctionPointerContainer )
Initializes a new instance of the CRFFunctionNet class.
11.96.2.2 CRFFunctionNet() [2/2] CRFFunctionNet (
               CMcsUsbNet^ mcsusb )
11.96.2.3 \sim CRFFunctionNet() virtual \sim CRFFunctionNet ( ) [virtual]
11.96.2.4 "!CRFFunctionNet() !CRFFunctionNet ( )
11.96.3 Member Function Documentation
11.96.3.1 Connect() void Connect (
```

uint32_t sn)
connect to a RF device, use 0 to disconnect

D					
Pa	ra	m	ല	ſΑ	rς

sn the serial number

```
11.96.3.2 GetAvailableDeviceList() array<uint32_t> ^ GetAvailableDeviceList ( )
```

get a list of available devices

Returns

array of devices

```
11.96.3.3 GetAvailableDeviceListEx() array<uint32_t> ^{\land} GetAvailableDeviceListEx ( int list\_Length)
```

get a list of available devices

Parameters

list_L	.ength	The maximal length of list.
--------	--------	-----------------------------

Returns

array of devices

$\textbf{11.96.3.4} \quad \textbf{GetAvailableStateList()} \quad \texttt{array} < \texttt{uint32_t} > \quad ^{\wedge} \quad \texttt{GetAvailableStateList ()}$

get a list of the states of the available devices

Returns

array of states

```
11.96.3.5 GetAvailableStateListEx() array<uint32_t> ^{\land} GetAvailableStateListEx ( int list_Length )
```

get a list of the states of the available devices

Parameters

Returns

array of states

11.96.3.6 GetBaseFrequency() uint32_t GetBaseFrequency (CFirmwareDestinationNet destination)

gets the base advertise frequency

Parameters

destination the destination to query

Returns

the frequency

11.96.3.7 GetConnectedDevice() uint32_t GetConnectedDevice ()

get connect RF device, 0 = no device connected

Returns

the serial number

11.96.3.8 GetState() uint32_t GetState ()

get connection state

Returns

the state

```
11.96.3.9 GetTestMode() uint32_t GetTestMode ( )
gets test mode
Returns
     the mode
11.96.3.10 GetWorkingFrequency() uint32_t GetWorkingFrequency ( )
gets the working frequency
Returns
     the frequency
11.96.3.11 SetBaseFrequency() void SetBaseFrequency (
             CFirmwareDestinationNet destination,
             uint32_t frequency )
sets the base advertise frequency
Parameters
 destination
             the destination to set
 frequency
             the frequency
11.96.3.12 SetTestMode() void SetTestMode (
             uint32_t mode )
set test mode
Parameters
 mode | the mode
```

```
11.96.3.13 SetWorkingFrequency() void SetWorkingFrequency ( uint32_t frequency )
```

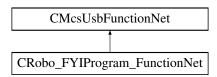
sets the working frequency

Parameters

frequency	the frequency

11.97 CRobo_FYIProgram_FunctionNet Class Reference

Inheritance diagram for CRobo_FYIProgram_FunctionNet:



Public Member Functions

- CRobo_FYIProgram_FunctionNet (CMcsUsbNet[^] mcsusb, CMcsUsbFunctionPointerContainer[^] robo_←
 FYIProgram FunctionPointerContainer)
- CRobo_FYIProgram_FunctionNet (CMcsUsbNet^ mcsusb)
- void SetValve1 (unsigned char index, unsigned int valve1)
- unsigned int GetValve1 (unsigned char index)
- void SetValve2 (unsigned char index, unsigned int valve2)
- unsigned int GetValve2 (unsigned char index)
- void SetLength (unsigned char index, int length)
- int GetLength (unsigned char index)
- void Start ()
- int GetState ()

Additional Inherited Members

11.97.1 Constructor & Destructor Documentation

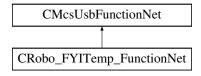
```
11.97.1.2 CRobo_FYIProgram_FunctionNet() [2/2] CRobo_FYIProgram_FunctionNet (
CMcsUsbNet^ mcsusb)
```

11.97.2 Member Function Documentation

```
11.97.2.1 GetLength() int GetLength (
             unsigned char index )
11.97.2.2 GetState() int GetState ()
11.97.2.3 GetValve1() unsigned int GetValve1 (
             unsigned char index )
11.97.2.4 GetValve2() unsigned int GetValve2 (
             unsigned char index)
11.97.2.5 SetLength() void SetLength (
             unsigned char index,
             int length )
11.97.2.6 SetValve1() void SetValve1 (
             unsigned char index,
             unsigned int valve1 )
11.97.2.7 SetValve2() void SetValve2 (
             unsigned char index,
             unsigned int valve2 )
11.97.2.8 Start() void Start ()
```

11.98 CRobo_FYITemp_FunctionNet Class Reference

Inheritance diagram for CRobo_FYITemp_FunctionNet:



Public Member Functions

- CRobo_FYITemp_FunctionNet (CMcsUsbNet[^] mcsusb)
- void SetRegulatorOnOff (unsigned char index, int onoff)
- int GetRegulatorOnOff (unsigned char index)
- void SetSollTemp (unsigned char index, int temp)
- int GetSollTemp (unsigned char index)
- void SetPCoeff (unsigned char index, int pcoeff)
- int GetPCoeff (unsigned char index)
- void SetlCoeff (unsigned char index, int icoeff)
- int GetlCoeff (unsigned char index)
- void SetMaxPower (unsigned char index, int power)
- int GetMaxPower (unsigned char index)

Additional Inherited Members

11.98.1 Constructor & Destructor Documentation

```
11.98.1.1 CRobo_FYITemp_FunctionNet() CRobo_FYITemp_FunctionNet (
CMcsUsbNet^ mcsusb )
```

11.98.2 Member Function Documentation

```
11.98.2.1 GetlCoeff() int GetlCoeff (
unsigned char index)
```

```
11.98.2.2 GetMaxPower() int GetMaxPower (
unsigned char index)
```

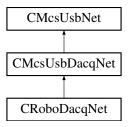
```
11.98.2.3 GetPCoeff() int GetPCoeff (
unsigned char index)
```

```
11.98.2.4 GetRegulatorOnOff() int GetRegulatorOnOff ( unsigned char index )
```

```
11.98.2.5 GetSollTemp() int GetSollTemp (
             unsigned char index)
11.98.2.6 SetlCoeff() void SetICoeff (
             unsigned char index,
             int icoeff )
11.98.2.7 SetMaxPower() void SetMaxPower (
             unsigned char index,
             int power )
11.98.2.8 SetPCoeff() void SetPCoeff (
             unsigned char index,
             int pcoeff )
11.98.2.9 SetRegulatorOnOff() void SetRegulatorOnOff (
             unsigned char index,
             int onoff )
11.98.2.10 SetSollTemp() void SetSollTemp (
             unsigned char index,
             int temp )
```

11.99 CRoboDacqNet Class Reference

Inheritance diagram for CRoboDacqNet:



Public Member Functions

- CRoboDacqNet (void)
- CRoboDacqNet (CRoboDeviceNet[^] robodevice)
- void RunTable ()
- void RunTable (int timeout)
- · void StopTable ()
- void StopTable (int timeout)
- void CancelTableLoop ()
- void CancelTableLoopAndStopTable ()
- void SetTriggerMaskValue (unsigned int mask, unsigned int value, unsigned int virtualDevice)
- void SetConfigurationBit (unsigned short bit, bool value)
- void SetConfigurationBitSupply (bool value)
- void SetConfigurationBitRelais (bool value)
- void SetConfigurationBitStream (bool value)
- void SetConfigurationBitAxc (bool value)
- void SetConfigurationBitCC Gen (bool value)
- void SetConfigurationBitCV Gen (bool value)
- · void SetConfigurationBitRC Gen (bool value)
- void SetConfigurationBitRV_Gen (bool value)
- void SetConfigurationBitBlu_Led (bool value)
- void SetConfigurationBitRed_Led (bool value)
- void SetConfigurationBitBlu_LedToggleSlow (bool value)
- void SetConfigurationBitRed LedToggleSlow (bool value)
- void SetConfigurationBitBlu LedToggleFast (bool value)
- void SetConfigurationBitRed LedToggleFast (bool value)
- · void SetConfigurationBitRed_LedSaturation (bool value)
- void SetSimulation (unsigned int enable)
- void SetUClamp (int uClamp)
- void SetIClamp (int iClamp)
- void SetPGain (int pGain)
- void SetlGain (int iGain)
- void SetFilter (int filter)
- void SetUVOffset (int UVOffset)
- void SetUCOffset (int UCOffset)
- · void SetICOffset (int ICOffset)
- void SetCrossTalkOffset (int CrossTalk)
- void SetXGain (int xGain)
- void SetCrossTalkOptimum (int cxOptimum)
- void SetRecordingNumber (unsigned int recordingNumber)
- void ClampAmpRestart ()
- void DoRamp (int startValue, int endValue, int duration, int mode)
- unsigned int GetClampAmpSerialNumber ()
- unsigned int GetConfigurationBits ()
- · bool GetConfigurationBit (unsigned short bit)
- bool GetConfigurationBitSupply ()
- bool GetConfigurationBitRelais ()
- · bool GetConfigurationBitStream ()
- bool GetConfigurationBitAxc ()
- bool GetConfigurationBitCC_Gen ()
- bool GetConfigurationBitCV_Gen ()
- bool GetConfigurationBitRC Gen ()
- bool GetConfigurationBitRV Gen ()
- bool GetConfigurationBitBlu Led ()
- bool GetConfigurationBitRed_Led ()

- bool GetConfigurationBitBlu_LedToggleSlow ()
- bool GetConfigurationBitRed_LedToggleSlow ()
- bool GetConfigurationBitBlu_LedToggleFast ()
- bool GetConfigurationBitRed_LedToggleFast ()
- bool GetConfigurationBitRed LedSaturation ()
- unsigned int GetSimulation ()
- int GetUClamp ()
- int GetlClamp ()
- int GetPGain ()
- int GetlGain ()
- int GetFilter ()
- · int GetUVOffset ()
- · int GetUCOffset ()
- int GetICOffset ()
- int GetCrossTalkOffset ()
- int GetXGain ()
- int GetCrossTalkOptimum ()
- unsigned int GetRecordingNumber ()
- int GetResistanceC ()
- int GetResistanceV ()
- int GetCapacityC ()
- · int GetCapacityV ()
- · int GetCapacityX ()
- int GetUV ()
- int GetUC ()
- int GetIC ()
- int GetNUV_MS ()
- int GetNUC_MS ()
- int GetNIC_MS ()
- void SetAllDigout (uint32_t value)
- uint32 t GetAllDigout ()
- void SetCommand (unsigned char command, int value)
- int GetCommand (unsigned char command)
- · void SetDigout (uint16_t index, bool enable)
- bool GetDigout (uint16_t index)
- void TableDefBegin ()
- void TableDefEnd ()
- void Table_Wait (unsigned int tableWait)
- void SetDownsampleFactor (int index, int downsample_factor)
- void SetFilterCoeffs (int index, array< int >[∧] coeffs)
- void SetNoFilterCoeffs (int index)
- int GetDownsampleFactor (int index)
- array< int > ^ GetFilterCoeffs (int index)
- void Emu_SetElectrodeResists (int emuElectrodeResist)
- void Emu_SetCellResists (int emuCellResist)
- void Emu_SetCellCapacity (int emuCellCapacity)
- void Emu_SetCellPotential (int emuCellPotential)
- · void Emu_SetNoise (int emuNoise)
- int Emu_GetElectrodeResists ()
- int Emu_GetCellResists ()
- int Emu GetCellCapacity ()
- int Emu_GetCellPotential ()
- int Emu GetNoise ()
- void SetDisplayText (int index, String[^] displayText)
- void SetScreen (int screen)

- void UpdateDisplay ()
- String \(^\) GetDisplayText (int index)
- int GetScreen ()
- int GetUpdateDisplay ()

Static Public Attributes

- static const unsigned int TriggerMask_Default = 0xFF00
- static const unsigned int TriggerValue_MoveAbs = COMMAND_ROBO_MOVEABS
- static const unsigned int TriggerValue_StartQueue = COMMAND_ROBO_QUEUE
- static const unsigned int VirtualDevice_ContinousDacq = 0
- static const unsigned int VirtualDevice_TableRun = 1

Additional Inherited Members

11.99.1 Constructor & Destructor Documentation

```
11.99.1.1 CRoboDacqNet() [1/2] CRoboDacqNet (
void )
```

11.99.2 Member Function Documentation

```
11.99.2.1 CancelTableLoop() void CancelTableLoop ( )
```

11.99.2.2 CancelTableLoopAndStopTable() void CancelTableLoopAndStopTable ()

 $\textbf{11.99.2.3} \quad \textbf{ClampAmpRestart()} \quad \texttt{void ClampAmpRestart ()}$

```
11.99.2.4 DoRamp() void DoRamp (
             int startValue,
             int endValue,
            int duration,
             int mode )
11.99.2.5 Emu_GetCellCapacity() int Emu_GetCellCapacity ( )
11.99.2.6 Emu_GetCellPotential() int Emu_GetCellPotential ( )
11.99.2.7 Emu_GetCellResists() int Emu_GetCellResists ( )
11.99.2.8 Emu_GetElectrodeResists() int Emu_GetElectrodeResists ( )
11.99.2.9 Emu_GetNoise() int Emu_GetNoise ( )
11.99.2.10 Emu_SetCellCapacity() void Emu_SetCellCapacity (
             int emuCellCapacity )
11.99.2.11 Emu_SetCellPotential() void Emu_SetCellPotential (
             int emuCellPotential )
11.99.2.12 Emu_SetCellResists() void Emu_SetCellResists (
             int emuCellResist )
11.99.2.13 Emu_SetElectrodeResists() void Emu_SetElectrodeResists (
             int emuElectrodeResist )
```

```
11.99.2.14 Emu_SetNoise() void Emu_SetNoise (
            int emuNoise )
11.99.2.15 GetAllDigout() uint32_t GetAllDigout ( )
11.99.2.16 GetCapacityC() int GetCapacityC ( )
11.99.2.17 GetCapacityV() int GetCapacityV ( )
11.99.2.18 GetCapacityX() int GetCapacityX ( )
11.99.2.19 GetClampAmpSerialNumber() unsigned int GetClampAmpSerialNumber ( )
11.99.2.20 GetCommand() int GetCommand (
            unsigned char command )
11.99.2.21 GetConfigurationBit() bool GetConfigurationBit (
            unsigned short bit )
11.99.2.22 GetConfigurationBitAxc() bool GetConfigurationBitAxc ( )
11.99.2.23 GetConfigurationBitBlu_Led() bool GetConfigurationBitBlu_Led ( )
11.99.2.24 GetConfigurationBitBlu_LedToggleFast() bool GetConfigurationBitBlu_LedToggleFast ( )
```

11.99.2.25	GetConfigurationBitBlu_LedToggleSlow() bool GetConfigurationBitBlu_LedToggleSlow ()
11.99.2.26	GetConfigurationBitCC_Gen() bool GetConfigurationBitCC_Gen ()
11.99.2.27	GetConfigurationBitCV_Gen() bool GetConfigurationBitCV_Gen ()
11.99.2.28	GetConfigurationBitRC_Gen() bool GetConfigurationBitRC_Gen ()
11.99.2.29	GetConfigurationBitRed_Led() bool GetConfigurationBitRed_Led ()
11.99.2.30	GetConfigurationBitRed_LedSaturation() bool GetConfigurationBitRed_LedSaturation ()
11.99.2.31	GetConfigurationBitRed_LedToggleFast() bool GetConfigurationBitRed_LedToggleFast ()
11.99.2.32	GetConfigurationBitRed_LedToggleSlow() bool GetConfigurationBitRed_LedToggleSlow ()
11.99.2.33	GetConfigurationBitRelais() bool GetConfigurationBitRelais ()
11.99.2.34	GetConfigurationBitRV_Gen() bool GetConfigurationBitRV_Gen ()
11.99.2.35	<pre>GetConfigurationBits() unsigned int GetConfigurationBits ()</pre>

```
11.99.2.36 GetConfigurationBitStream() bool GetConfigurationBitStream ( )
11.99.2.37 GetConfigurationBitSupply() bool GetConfigurationBitSupply ( )
11.99.2.38 GetCrossTalkOffset() int GetCrossTalkOffset ( )
11.99.2.39 GetCrossTalkOptimum() int GetCrossTalkOptimum ( )
11.99.2.40 GetDigout() bool GetDigout (
             uint16_t index )
11.99.2.41 GetDisplayText() String ^ GetDisplayText (
             int index )
11.99.2.42 GetDownsampleFactor() int GetDownsampleFactor (
            int index )
11.99.2.43 GetFilter() int GetFilter ( )
11.99.2.44 GetFilterCoeffs() array<int> ^ GetFilterCoeffs (
             int index )
11.99.2.45 GetIC() int GetIC ( )
11.99.2.46 GetlClamp() int GetlClamp ()
```

```
11.99.2.47 GetICOffset() int GetICOffset ( )
11.99.2.48 GetlGain() int GetlGain ()
11.99.2.49 GetNIC_MS() int GetNIC_MS ()
11.99.2.50 GetNUC_MS() int GetNUC_MS ( )
11.99.2.51 GetNUV_MS() int GetNUV_MS ()
11.99.2.52 GetPGain() int GetPGain ()
\textbf{11.99.2.53} \quad \textbf{GetRecordingNumber()} \quad \texttt{unsigned int GetRecordingNumber ()}
11.99.2.54 GetResistanceC() int GetResistanceC ()
11.99.2.55 GetResistanceV() int GetResistanceV ()
11.99.2.56 GetScreen() int GetScreen ()
11.99.2.57 GetSimulation() unsigned int GetSimulation ( )
```

```
11.99.2.58 GetUC() int GetUC ( )
11.99.2.59 GetUClamp() int GetUClamp ()
11.99.2.60 GetUCOffset() int GetUCOffset ( )
11.99.2.61 GetUpdateDisplay() int GetUpdateDisplay ( )
11.99.2.62 GetUV() int GetUV ( )
11.99.2.63 GetUVOffset() int GetUVOffset ( )
11.99.2.64 GetXGain() int GetXGain ( )
11.99.2.65 RunTable() [1/2] void RunTable ( )
11.99.2.66 RunTable() [2/2] void RunTable (
            int timeout )
11.99.2.67 SetAllDigout() void SetAllDigout (
            uint32_t value )
11.99.2.68 SetCommand() void SetCommand (
            unsigned char command,
            int value )
```

```
11.99.2.69 SetConfigurationBit() void SetConfigurationBit (
                                                                                                                                unsigned short bit,
                                                                                                                                bool value )
11.99.2.70 SetConfigurationBitAxc() void SetConfigurationBitAxc (
                                                                                                                                bool value )
11.99.2.71 SetConfigurationBitBlu_Led() void SetConfigurationBitBlu_Led (
                                                                                                                                bool value )
\textbf{11.99.2.72} \quad \textbf{SetConfigurationBitBlu\_LedToggleFast()} \quad \texttt{void SetConfigurationBitBlu\_LedToggleFast} \quad \textbf{(} \quad \textbf{(} \quad \textbf{)} \quad \textbf{(} \quad \textbf{)} \quad \textbf{(} \quad \textbf{(} \quad \textbf{)} \quad \textbf{(} \quad \textbf{(} \quad \textbf{)} \quad \textbf{(} \quad \textbf{)} \quad \textbf{(} \quad \textbf{(} \quad \textbf{(} \quad \textbf{)} \quad \textbf{(} 
                                                                                                                                bool value )
\textbf{11.99.2.73} \quad \textbf{SetConfigurationBitBlu\_LedToggleSlow()} \quad \texttt{void SetConfigurationBitBlu\_LedToggleSlow} \ ( \textbf{void SetConfigurationB
                                                                                                                               bool value )
\textbf{11.99.2.74} \quad \textbf{SetConfigurationBitCC\_Gen()} \quad \texttt{void SetConfigurationBitCC\_Gen ()}
                                                                                                                                bool value )
\textbf{11.99.2.75} \quad \textbf{SetConfigurationBitCV\_Gen()} \quad \texttt{void SetConfigurationBitCV\_Gen ()}
                                                                                                                               bool value )
11.99.2.76 SetConfigurationBitRC_Gen() void SetConfigurationBitRC_Gen (
                                                                                                                                bool value )
11.99.2.77 SetConfigurationBitRed_Led() void SetConfigurationBitRed_Led (
                                                                                                                                bool value )
```

```
\textbf{11.99.2.78} \quad \textbf{SetConfigurationBitRed\_LedSaturation()} \quad \texttt{void SetConfigurationBitRed\_LedSaturation} \quad \textbf{(}
                                                      bool value )
\textbf{11.99.2.79} \quad \textbf{SetConfigurationBitRed\_LedToggleFast()} \quad \texttt{void SetConfigurationBitRed\_LedToggleFast()} \quad \texttt{void SetConfigurationB
                                                      bool value )
11.99.2.80 SetConfigurationBitRed_LedToggleSlow() void SetConfigurationBitRed_LedToggleSlow (
                                                     bool value )
11.99.2.81 SetConfigurationBitRelais() void SetConfigurationBitRelais (
                                                      bool value )
11.99.2.82 SetConfigurationBitRV_Gen() void SetConfigurationBitRV_Gen (
                                                     bool value )
11.99.2.83 SetConfigurationBitStream() void SetConfigurationBitStream (
                                                     bool value )
\textbf{11.99.2.84} \quad \textbf{SetConfigurationBitSupply()} \quad \texttt{void SetConfigurationBitSupply} \quad \textbf{(}
                                                     bool value )
11.99.2.85 SetCrossTalkOffset() void SetCrossTalkOffset (
                                                     int CrossTalk )
11.99.2.86 SetCrossTalkOptimum() void SetCrossTalkOptimum (
                                                      int cxOptimum )
```

```
11.99.2.87 SetDigout() void SetDigout (
             uint16_t index,
             bool enable )
11.99.2.88 SetDisplayText() void SetDisplayText (
             int index,
             String^{\wedge} displayText)
11.99.2.89 SetDownsampleFactor() void SetDownsampleFactor (
             int index,
             int downsample_factor )
11.99.2.90 SetFilter() void SetFilter (
             int filter )
11.99.2.91 SetFilterCoeffs() void SetFilterCoeffs (
             int index,
             array < int >^{\land} coeffs)
11.99.2.92 SetlClamp() void SetIClamp (
             int iClamp )
11.99.2.93 SetICOffset() void SetICOffset (
             int ICOffset )
11.99.2.94 SetlGain() void SetIGain (
             int iGain )
11.99.2.95 SetNoFilterCoeffs() void SetNoFilterCoeffs (
             int index )
```

```
11.99.2.96 SetPGain() void SetPGain (
            int pGain )
11.99.2.97 SetRecordingNumber() void SetRecordingNumber (
            unsigned int recordingNumber )
11.99.2.98 SetScreen() void SetScreen (
            int screen )
11.99.2.99 SetSimulation() void SetSimulation (
            unsigned int enable )
11.99.2.100 SetTriggerMaskValue() void SetTriggerMaskValue (
            unsigned int mask,
             unsigned int value,
            unsigned int virtualDevice )
11.99.2.101 SetUClamp() void SetUClamp (
            int uClamp )
11.99.2.102 SetUCOffset() void SetUCOffset (
            int UCOffset )
11.99.2.103 SetUVOffset() void SetUVOffset (
            int UVOffset )
11.99.2.104 SetXGain() void SetXGain (
            int xGain )
```

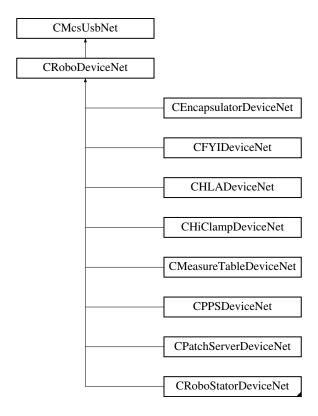
```
11.99.2.105 StopTable() [1/2] void StopTable ( )
11.99.2.106 StopTable() [2/2] void StopTable (
             int timeout )
unsigned int tableWait )
11.99.2.108 TableDefBegin() void TableDefBegin ( )
11.99.2.109 TableDefEnd() void TableDefEnd ( )
11.99.2.110 UpdateDisplay() void UpdateDisplay ( )
11.99.3 Member Data Documentation
11.99.3.1 TriggerMask_Default const unsigned int TriggerMask_Default = 0xFF00 [static]
11.99.3.2 TriggerValue_MoveAbs const unsigned int TriggerValue_MoveAbs = COMMAND_ROBO_MOVEABS
[static]
\textbf{11.99.3.3} \quad \textbf{TriggerValue\_StartQueue} \quad \texttt{const unsigned int TriggerValue\_StartQueue} = \texttt{COMMAND\_ROBO\_} \leftarrow
QUEUE [static]
11.99.3.4 VirtualDevice_ContinousDacq const unsigned int VirtualDevice_ContinousDacq = 0 [static]
```

11.99.3.5 VirtualDevice_TableRun const unsigned int VirtualDevice_TableRun = 1 [static]

11.100 CRoboDeviceNet Class Reference

CRoboDeviceNet is the base class for all Robo platform based devices

Inheritance diagram for CRoboDeviceNet:



Classes

· class RoboMainLowLevelCommands

Public Member Functions

- CRoboDeviceNet (void)
- ∼CRoboDeviceNet (void)
- void SetInMovement ()

Low level command, sets the internal state to "In Movement"

• bool GetInMovement ()

Low level command, gets the internal state "In Movement"

• uint32_t GetMovementError ()

Low level command, gets the error of the last movement end

- void FindReference (unsigned char busaddress, char axes)
- void FindReference (unsigned char busaddress, char axes, int timeout)

Searches the reference position of the motor

• void MoveAbs (unsigned char busaddress, char axes, int x, int y)

Moves the motor to the new absolute position

void MoveAbs (unsigned char busaddress, char axes, int x, int y, int timeout)

Moves the motor to the new absolute position

• void MoveAbs (unsigned char busaddress, char axes, array< int $>^{\land}$ pos)

Moves the motor to the new absolute position

void MoveAbs (unsigned char busaddress, char axes, array< int >[∧] pos, int timeout)

Moves the motor to the new absolute position

- void StopMovement (unsigned char busaddress, char axes)
- void StopMovement (unsigned char busaddress, char axes, int timeout)

Stops the current movement

- · void SetCurrentAndAir (unsigned char busaddress, char axes, unsigned short onoff)
- void SetCurrentAndAir (unsigned char busaddress, char axes, unsigned short onoff, int timeout)
- bool IsQueueEnabled ()
- void EnableQueue (bool enable)
- bool IsQueueStarted ()
- void StartQueue (bool start)
- void WaitTimer (uint32 t waittime, int timeout)
- void CancelPoolLoop ()
- void CancelPoolLoopAndStopMovement ()
- void GetCurrentPosition (unsigned char busaddress, char axes, [System::Runtime::InteropServices::Out]int%
 x, [System::Runtime::InteropServices::Out]int% y)

Gets the current position of motors

- void SetAirValve (unsigned int onoff)
- unsigned int GetAirValve ()
- unsigned int GetVoltageValves ()
- unsigned int GetVoltageRs485A ()
- unsigned int GetVoltageRs485B ()
- unsigned int GetVoltageAirvalve ()
- unsigned int GetCurrentAirvalve ()
- unsigned int GetVoltage12V ()
- unsigned int GetAirpressure ()
- unsigned int GetVoltage5V ()
- unsigned int GetErrorVoltageValves ()
- unsigned int GetErrorVoltageRs485A ()
- unsigned int GetErrorVoltageRs485B ()
- unsigned int GetErrorVoltageAirvalve ()
- unsigned int GetErrorCurrentAirvalve ()
- unsigned int GetErrorVoltage12V ()
- unsigned int GetErrorAirpressure ()
- unsigned int GetErrorVoltage5V ()
- void SetVoltageValvesLimit (unsigned int lowervoltage, unsigned int uppervoltage)
- void SetVoltageRs485ALimit (unsigned int lowervoltage, unsigned int uppervoltage)
- void SetVoltageRs485BLimit (unsigned int lowervoltage, unsigned int uppervoltage)
 void SetVoltageAirvalveLimit (unsigned int lowervoltage, unsigned int uppervoltage)
- void SetCurrentAirvalveLimit (unsigned int lowercurrent, unsigned int uppercurrent)
- void SetVoltage12VLimit (unsigned int lowervoltage, unsigned int uppervoltage)
- void SetAirpressureLimit (unsigned int lowerpressure, unsigned int upperpressure)
- void SetVoltage5VLimit (unsigned int lowervoltage, unsigned int uppervoltage)
- void GetVoltageRs485ALimit ([System::Runtime::InteropServices::Out]unsigned int% lowervoltage, [System::Runtime::InteropServices::Out]unsigned int% uppervoltage)
- void GetVoltageRs485BLimit ([System::Runtime::InteropServices::Out]unsigned int% lowervoltage, [System::Runtime::InteropServices::Out]unsigned int% uppervoltage)

- void GetVoltageAirvalveLimit ([System::Runtime::InteropServices::Out]unsigned int% lowervoltage, [System::Runtime::InteropServices::Out]unsigned int% uppervoltage)
- void GetCurrentAirvalveLimit ([System::Runtime::InteropServices::Out]unsigned int% lowercurrent, [System::Runtime::InteropServices::Out]unsigned int% uppercurrent)
- void GetVoltage12VLimit ([System::Runtime::InteropServices::Out]unsigned int% lowervoltage, [System::

 Runtime::InteropServices::Out]unsigned int% uppervoltage)
- void GetAirpressureLimit ([System::Runtime::InteropServices::Out]unsigned int% lowerpressure, [System←
 ::Runtime::InteropServices::Out]unsigned int% upperpressure)
- void GetVoltage5VLimit ([System::Runtime::InteropServices::Out]unsigned int% lowervoltage, [System::
 Runtime::InteropServices::Out]unsigned int% uppervoltage)
- · void SetMinPressure (int pressure)
- int GetMinPressure ()

Static Public Attributes

- static const uint32_t RoboError_Base = (0xA0110000L)
- static const uint32 t RoboError UnknownCommand = ((0xA0110000L))
- static const uint32 t RoboError Timeout = ((0xA0110000L) | 0x0001)
- static const uint32 t RoboError Pressure = ((0xA0110000L) | 0x0002)
- static const uint32_t RoboError_RangeExceeded = ((0xA0110000L) | 0x0003)
- static const uint32_t RoboError_CommunicationTimeout = ((0xA0110000L) | 0x0004)
- static const uint32 t RoboError AnotherMaster = ((0xA0110000L) | 0x0005)
- static const uint32_t RoboError_FindReferenceMethod = ((0xA0110000L) | 0x0006)
- static const uint32 t RoboError NoSpeedOrAcceleration = ((0xA0110000L) | 0x0007)
- static const uint32_t RoboError_NoEndSwitch = ((0xA0110000L) | 0x0008)
- static const uint32_t RoboError_CannotEscapeEndSwitch = ((0xA0110000L) | 0x0009)
- static const uint32_t RoboError_CommandAlreadyInProgress = ((0xA0110000L) | 0x000A)
- static const uint32_t RoboError_NoReference = ((0xA0110000L) | 0x000B)
- static const uint32_t RoboError_OverPressure = ((0xA0110000L) | 0x000C)
- static const uint32_t RoboError_Phase0OutOfRange = ((0xA0110000L) | 0x000D)
- static const uint32_t RoboError_PeristalticTimeout = ((0xA0110000L) | 0x000E)
- static const uint32_t RoboError_GilsonTimeout = ((0xA0110000L) | 0x000F)
- static const uint32 t RoboError GilsonWrondID = ((0xA0110000L) | 0x0010)
- static const uint32 t RoboError GilsonCommandPending = ((0xA0110000L) | 0x0011)
- static const uint32_t RoboError_ParameterNotAllowed = ((0xA0110000L) | 0x0012)
- static const uint32_t RoboError_StateChangeNotPossible = ((0xA0110000L) | 0x0013)
- static const uint32 t RoboError CommandNotPossible = ((0xA0110000L) | 0x0014)
- static const uint32_t RoboError_DacqNotReady = ((0xA0110000L) | 0x0015)
- static const uint32 t RoboError NoMoreData = ((0xA0110000L) | 0x0016)
- static const uint32_t RoboError_McsBus_UnknownCommand = ((0xA0110000L) | 0x003F)
- static const uint32_t RoboError_DLLMovementTimeout = ((0xA0110000L) | 0x1001)
- static const uint32_t RoboError_PollLoopCanceled = ((0xA0110000L) | 0x1002)
- static const uint32_t RoboError_PollLoopCanceledAndStopMovement = ((0xA0110000L) | 0x1003)
- static const byte McsBus_XY = 1

McsBus address for the xy-plane

• static const byte McsBus ZI = 2

McsBus address for the z and i axes

static const byte Axis_X = 0

Axis number of x for axis argument

static const byte Axis_Y = 1

Axis number of y for axis argument

static const byte Axis_Z = 0

Axis number of z for axis argument

```
static const byte Axis_I = 1
```

Axis number of i for axis argument

• static const char Axes_X = 1

Bit pattern for x axis for axes argument

static const char Axes_Y = 2

Bit pattern for y axis for axes argument

• static const char Axes Z = 1

Bit pattern for z axis for axes argument

static const char Axes I = 2

Bit pattern for i axis for axes argument

Properties

- CMcsBusNet^ McsBus [get]
- CMcsBus_MotorControlNet^ McsBus_MotorControl [get]
- RoboMainLowLevelCommands A RoboMainLowLevelCommand [get]

Events

RoboStatusEventDelegate[^] RoboStatusEvent

Additional Inherited Members

11.100.1 Detailed Description

CRoboDeviceNet is the base class for all Robo platform based devices

11.100.2 Constructor & Destructor Documentation

11.100.2.1 CRoboDeviceNet() CRoboDeviceNet (

11.100.3 Member Function Documentation

11.100.3.1 CancelPoolLoop() void CancelPoolLoop ()

```
11.100.3.2 CancelPoolLoopAndStopMovement() void CancelPoolLoopAndStopMovement ( )
```

```
11.100.3.3 EnableQueue() void EnableQueue ( bool enable )
```

```
11.100.3.4 FindReference() [1/2] void FindReference (
unsigned char busaddress,
char axes)
```

```
11.100.3.5 FindReference() [2/2] void FindReference (
    unsigned char busaddress,
    char axes,
    int timeout )
```

Searches the reference position of the motor

Parameters

busaddress	Address of the McsBus
axes	Bit pattern of axes to drive
timeout	Timeout of maximal waiting for the end of the command (-1 is forever)

```
11.100.3.6 GetAirpressure() unsigned int GetAirpressure ( )
```

```
11.100.3.7 GetAirpressureLimit() void GetAirpressureLimit (

[System::Runtime::InteropServices::Out] unsigned int% lowerpressure,

[System::Runtime::InteropServices::Out] unsigned int% upperpressure)
```

```
11.100.3.8 GetAirValve() unsigned int GetAirValve ( )
```

11.100.3.9 GetCurrentAirvalve() unsigned int GetCurrentAirvalve ()

```
11.100.3.10 GetCurrentAirvalveLimit() void GetCurrentAirvalveLimit (
               [System::Runtime::InteropServices::Out] unsigned int% lowercurrent,
               [{\tt System::Runtime::InteropServices::Out}] \  \, {\tt unsigned int \$} \  \, {\tt uppercurrent} \  \, )
11.100.3.11 GetCurrentPosition() void GetCurrentPosition (
               unsigned char busaddress,
               char axes,
               [System::Runtime::InteropServices::Out] int% x,
               [System::Runtime::InteropServices::Out] int% y )
Gets the current position of motors
Parameters
 busaddress
               Address of the McsBus
                Bit pattern of axes to drive
 axes
                Current position of first axis if pattern in axes is set
 Χ
                Current position of second axis if pattern in axes is set
 у
11.100.3.12 GetErrorAirpressure() unsigned int GetErrorAirpressure ( )
\textbf{11.100.3.13} \quad \textbf{GetErrorCurrentAirvalve()} \quad \texttt{unsigned int GetErrorCurrentAirvalve ()}
\textbf{11.100.3.14} \quad \textbf{GetErrorVoltage12V()} \quad \texttt{unsigned int GetErrorVoltage12V ()}
11.100.3.15 GetErrorVoltage5V() unsigned int GetErrorVoltage5V ()
11.100.3.16 GetErrorVoltageAirvalve() unsigned int GetErrorVoltageAirvalve ()
```

11.100.3.17 GetErrorVoltageRs485A() unsigned int GetErrorVoltageRs485A ()

```
11.100.3.18 GetErrorVoltageRs485B() unsigned int GetErrorVoltageRs485B ( )
11.100.3.19 GetErrorVoltageValves() unsigned int GetErrorVoltageValves ()
11.100.3.20 GetInMovement() bool GetInMovement ( )
Low level command, gets the internal state "In Movement"
11.100.3.21 GetMinPressure() int GetMinPressure ( )
11.100.3.22 GetMovementError() uint32_t GetMovementError ( )
Low level command, gets the error of the last movement end
11.100.3.23 GetVoltage12V() unsigned int GetVoltage12V ()
11.100.3.24 GetVoltage12VLimit() void GetVoltage12VLimit (
              [System::Runtime::InteropServices::Out] unsigned int% lowervoltage,
              [System::Runtime::InteropServices::Out] unsigned int% uppervoltage )
11.100.3.25 GetVoltage5V() unsigned int GetVoltage5V ()
11.100.3.26 GetVoltage5VLimit() void GetVoltage5VLimit (
              [System::Runtime::InteropServices::Out] unsigned int% lowervoltage,
              [\texttt{System::Runtime::InteropServices::Out}] \ \ unsigned \ \ int \\ \texttt{\textit{uppervoltage}} \ )
\textbf{11.100.3.27} \quad \textbf{GetVoltageAirvalve()} \quad \texttt{unsigned int GetVoltageAirvalve ()}
```

```
11.100.3.28 GetVoltageAirvalveLimit() void GetVoltageAirvalveLimit (
               [System::Runtime::InteropServices::Out] unsigned int% lowervoltage,
               [{\tt System::Runtime::InteropServices::Out}] \ \ unsigned \ \ int {\tt \textit{uppervoltage}} \ )
11.100.3.29 GetVoltageRs485A() unsigned int GetVoltageRs485A ( )
11.100.3.30 GetVoltageRs485ALimit() void GetVoltageRs485ALimit (
               [System::Runtime::InteropServices::Out] unsigned int% lowervoltage,
               [\texttt{System::Runtime::InteropServices::Out}] \ \ unsigned \ \ int \\ \texttt{\textit{uppervoltage}} \ )
11.100.3.31 GetVoltageRs485B() unsigned int GetVoltageRs485B ( )
11.100.3.32 GetVoltageRs485BLimit() void GetVoltageRs485BLimit (
               [System::Runtime::InteropServices::Out] unsigned int% lowervoltage,
               [{\tt System::Runtime::InteropServices::Out}] \ \ unsigned \ \ int {\tt \textit{uppervoltage}} \ )
\textbf{11.100.3.33} \quad \textbf{GetVoltageValves()} \quad \texttt{unsigned int GetVoltageValves ()}
11.100.3.34 GetVoltageValvesLimit() void GetVoltageValvesLimit (
               [System::Runtime::InteropServices::Out] unsigned int% lowervoltage,
               [\texttt{System::Runtime::InteropServices::Out}] \ \ unsigned \ \ int \\ \texttt{\textit{uppervoltage}} \ )
11.100.3.35 | IsQueueEnabled() | bool IsQueueEnabled ( )
11.100.3.36 IsQueueStarted() bool IsQueueStarted ( )
11.100.3.37 MoveAbs() [1/4] void MoveAbs (
               unsigned char busaddress,
               char axes,
               array< int >^{\wedge} pos )
```

Moves the motor to the new absolute position

Parameters

busaddress	Address of the McsBus
axes	Bit pattern of axes to drive
pos	Positions of the axis 0 to 3, if pattern in axes is set

```
11.100.3.38 MoveAbs() [2/4] void MoveAbs (
         unsigned char busaddress,
         char axes,
         array< int >^ pos,
         int timeout )
```

Moves the motor to the new absolute position

Parameters

busaddress	Address of the McsBus
axes	Bit pattern of axes to drive
pos	Positions of the axis 0 to 3, if pattern in axes is set
timeout	Timeout of maximal waiting for the end of the command (-1 is forever)

```
11.100.3.39 MoveAbs() [3/4] void MoveAbs (
    unsigned char busaddress,
    char axes,
    int x,
    int y )
```

Moves the motor to the new absolute position

Parameters

busaddress	Address of the McsBus
axes	Bit pattern of axes to drive
X	Position of first axis, if pattern in axes is set
	D 10 () 1 () 1 () 1
y	Position of second axis if pattern in axes is set

```
11.100.3.40 MoveAbs() [4/4] void MoveAbs (
        unsigned char busaddress,
        char axes,
        int x,
        int y,
        int timeout )
```

Moves the motor to the new absolute position

Parameters

busaddress	Address of the McsBus
axes	Bit pattern of axes to drive
X	Position of first axis, if pattern in axes is set
У	Position of second axis if pattern in axes is set
timeout	Timeout of maximal waiting for the end of the command (-1 is forever)

```
\textbf{11.100.3.41} \quad \textbf{SetAirpressureLimit()} \quad \texttt{void SetAirpressureLimit ()}
              unsigned int lowerpressure,
              unsigned int upperpressure )
11.100.3.42 SetAirValve() void SetAirValve (
              unsigned int onoff )
11.100.3.43 SetCurrentAirvalveLimit() void SetCurrentAirvalveLimit (
              unsigned int lowercurrent,
              unsigned int uppercurrent )
11.100.3.44 SetCurrentAndAir() [1/2] void SetCurrentAndAir (
              unsigned char busaddress,
              char axes,
              unsigned short onoff )
11.100.3.45 SetCurrentAndAir() [2/2] void SetCurrentAndAir (
              unsigned char busaddress,
              char axes,
              unsigned short onoff,
              int timeout )
```

 $\textbf{11.100.3.46} \quad \textbf{SetInMovement()} \quad \texttt{void SetInMovement ()} \\$

Low level command, sets the internal state to "In Movement"

```
11.100.3.47 SetMinPressure() void SetMinPressure (
             int pressure )
11.100.3.48 SetVoltage12VLimit() void SetVoltage12VLimit (
             unsigned int lowervoltage,
             unsigned int uppervoltage )
11.100.3.49 SetVoltage5VLimit() void SetVoltage5VLimit (
             unsigned int lowervoltage,
             unsigned int uppervoltage )
11.100.3.50 SetVoltageAirvalveLimit() void SetVoltageAirvalveLimit (
             unsigned int lowervoltage,
             unsigned int uppervoltage )
11.100.3.51 SetVoltageRs485ALimit() void SetVoltageRs485ALimit (
             unsigned int lowervoltage,
             unsigned int uppervoltage )
11.100.3.52 SetVoltageRs485BLimit() void SetVoltageRs485BLimit (
             unsigned int lowervoltage,
             unsigned int uppervoltage )
11.100.3.53 SetVoltageValvesLimit() void SetVoltageValvesLimit (
             unsigned int lowervoltage,
             unsigned int uppervoltage )
11.100.3.54 StartQueue() void StartQueue (
             bool start )
11.100.3.55 StopMovement() [1/2] void StopMovement (
             unsigned char busaddress,
             char axes )
11.100.3.56 StopMovement() [2/2] void StopMovement (
             unsigned char busaddress,
             char axes,
             int timeout )
Stops the current movement
```

Parameters

busaddress	Address of the McsBus
axes	Bit pattern of axes to drive
timeout	Timeout of maximal waiting for the end of the command (-1 is forever)

11.100.4 Member Data Documentation

```
11.100.4.1 Axes_I const char Axes_I = 2 [static]
```

Bit pattern for i axis for axes argument

Bit pattern for x axis for axes argument

```
11.100.4.3 Axes_Y const char Axes_Y = 2 [static]
```

Bit pattern for y axis for axes argument

```
11.100.4.4 Axes_Z const char Axes_Z = 1 [static]
```

Bit pattern for z axis for axes argument

11.100.4.5 Axis_I const byte Axis_I = 1 [static]

Axis number of i for axis argument

```
11.100.4.6 Axis_X const byte Axis_X = 0 [static]
```

Axis number of x for axis argument

```
11.100.4.7 Axis_Y const byte Axis_Y = 1 [static]
```

Axis number of y for axis argument

```
11.100.4.8 Axis_Z const byte Axis_Z = 0 [static]
```

Axis number of z for axis argument

```
11.100.4.9 McsBus_XY const byte McsBus_XY = 1 [static]
```

McsBus address for the xy-plane

```
11.100.4.10 McsBus_ZI const byte McsBus_ZI = 2 [static]
```

McsBus address for the z and i axes

```
11.100.4.11 RoboError_AnotherMaster const uint32_t RoboError_AnotherMaster = ( (0xA0110000L) | 0x0005 ) [static]
```

```
11.100.4.12 RoboError_Base const uint32_t RoboError_Base = (0xA0110000L) [static]
```

```
11.100.4.13 RoboError_CannotEscapeEndSwitch const uint32_t RoboError_CannotEscapeEndSwitch = ( (0xA0110000L) | 0x0009 ) [static]
```

```
11.100.4.14 RoboError_CommandAlreadyInProgress const uint32_t RoboError_CommandAlreadyIn← Progress = ( (0xA0110000L) | 0x000A ) [static]
```

```
11.100.4.15 RoboError_CommandNotPossible const uint32_t RoboError_CommandNotPossible = (
(0xA0110000L) | 0x0014 ) [static]
11.100.4.16 RoboError_CommunicationTimeout const uint32_t RoboError_CommunicationTimeout = (
(0xA0110000L) | 0x0004 ) [static]
11.100.4.17 RoboError_DacqNotReady const uint32_t RoboError_DacqNotReady = ( (0xA0110000L) |
0x0015 ) [static]
11.100.4.18 RoboError_DLLMovementTimeout const uint32_t RoboError_DLLMovementTimeout = (
(0xA0110000L) | 0x1001) [static]
11.100.4.19 RoboError_FindReferenceMethod const uint32_t RoboError_FindReferenceMethod = (
(0xA0110000L) | 0x0006 ) [static]
11.100.4.20 RoboError_GilsonCommandPending const uint32_t RoboError_GilsonCommandPending =
( (0xA0110000L) | 0x0011 ) [static]
11.100.4.21 RoboError_GilsonTimeout const uint32_t RoboError_GilsonTimeout = ( (0xA0110000L) |
0x000F ) [static]
11.100.4.22 RoboError_GilsonWrondID const uint32_t RoboError_GilsonWrondID = ( (0xA0110000L)
| 0x0010 ) [static]
11.100.4.23 RoboError_McsBus_UnknownCommand const uint32_t RoboError_McsBus_Unknown←
Command = ( (0xA0110000L) | 0x003F) [static]
11.100.4.24 RoboError_NoEndSwitch const uint32_t RoboError_NoEndSwitch = ( (0xA0110000L) |
0x0008 ) [static]
```

```
11.100.4.25 RoboError_NoMoreData const uint32_t RoboError_NoMoreData = ( (0xA0110000L) |
 0x0016 ) [static]
 11.100.4.26 RoboError_NoReference const uint32_t RoboError_NoReference = ( (0xA0110000L) |
 0x000B ) [static]
 11.100.4.27 RoboError_NoSpeedOrAcceleration const uint32_t RoboError_NoSpeedOrAcceleration =
     ( (0xA0110000L) | 0x0007 ) [static]
 11.100.4.28 RoboError_OverPressure const uint32_t RoboError_OverPressure = ( (0xA0110000L) |
 0x000C ) [static]
 11.100.4.29 RoboError_ParameterNotAllowed const uint32_t RoboError_ParameterNotAllowed = (
     (0xA0110000L) | 0x0012 ) [static]
\textbf{11.100.4.30} \quad \textbf{RoboError\_PeristalticTimeout} \quad \texttt{const uint} \\ \textbf{32\_t RoboError\_PeristalticTimeout} = \textbf{((0x} \leftarrow \texttt{(0x)}) \\ \textbf{(0x} \leftarrow \texttt{(0x)} \\ \textbf{(0x)} \leftarrow \texttt{(0x)} 
 A0110000L) | 0x000E ) [static]
\textbf{11.100.4.31} \quad \textbf{RoboError\_Phase0OutOfRange} \quad \texttt{const uint} \\ \textbf{32\_t RoboError\_Phase0OutOfRange} = \textbf{(0x} \\ \leftarrow \textbf{(0x}
 A0110000L) | 0x000D ) [static]
11.100.4.32 RoboError_PollLoopCanceled const uint32_t RoboError_PollLoopCanceled = ( (0x \leftarrow
 A0110000L) | 0x1002) [static]
11.100.4.33 RoboError_PollLoopCanceledAndStopMovement const uint32_t RoboError_PollLoop←
 CanceledAndStopMovement = ((0xA0110000L) | 0x1003) [static]
 \textbf{11.100.4.34} \quad \textbf{RoboError\_Pressure} \quad \texttt{const uint} \\ 32\_t \\ \texttt{RoboError\_Pressure} \\ = \\ \textbf{((0xA0110000L))} \\ \textbf{(0x} \\ \textbf{(0x
   [static]
```

```
11.100.4.35 RoboError_RangeExceeded const uint32_t RoboError_RangeExceeded = ( (0xA0110000L)
| 0x0003 ) [static]
11.100.4.36 RoboError_StateChangeNotPossible const uint32_t RoboError_StateChangeNotPossible
= ( (0xA0110000L) | 0x0013 ) [static]
11.100.4.37 RoboError_Timeout const uint32_t RoboError_Timeout = ( (0xA0110000L) | 0x0001 )
[static]
11.100.4.38 RoboError_UnknownCommand const uint32_t RoboError_UnknownCommand = ( (0x←)
A0110000L) ) [static]
11.100.5 Property Documentation
11.100.5.1 McsBus CMcsBusNet^ McsBus [get]
11.100.5.2 McsBus_MotorControl CMcsBus_MotorControlNet^ McsBus_MotorControl [get]
11.100.5.3 RoboMainLowLevelCommand RoboMainLowLevelCommands^ RoboMainLowLevelCommand [get]
11.100.6 Event Documentation
11.100.6.1 RoboStatusEvent RoboStatusEventDelegate^ RoboStatusEvent
11.101 CRoboFluidDeviceNet Class Reference
Inheritance diagram for CRoboFluidDeviceNet:
                                        CMcsUsbNet
                                    CRoboFluidDeviceNet
```

Public Member Functions

- CRoboFluidDeviceNet (void)
- ~CRoboFluidDeviceNet (void)
- void SetValve (int value)

Open or Close valves.

void SetSingleValve (int valve, bool onoff)

Opens or Closes a valve.

• int GetValve ()

Query the state of the values.

bool GetSingleValve (int valve)

Query the state of a valve.

- void CloseAllValves ()
- void PumpOn (int index, short speed)
- void SetPumpSpeed (int index, short speed)
- void PumpOff (int index)
- short GetPumpSpeed (int index)
- bool IsPumpMotorOn (int index)

Protected Attributes

- CRoboFluidDevice * m_pRoboFluidDevice
- CMcsBus_MotorControlNet ^ m_pMcsBus_MotorControlNet

Properties

• CMcsBus_MotorControlNet^ McsBus_MotorControl [get]

Additional Inherited Members

11.101.1 Constructor & Destructor Documentation

```
void )
```

11.101.1.1 CRoboFluidDeviceNet() CRoboFluidDeviceNet (

```
11.101.1.2 ~CRoboFluidDeviceNet() ~CRoboFluidDeviceNet (
```

11.101.2 Member Function Documentation

```
11.101.2.1 CloseAllValves() void CloseAllValves ( )
11.101.2.2 GetPumpSpeed() short GetPumpSpeed (
              int index )
11.101.2.3 GetSingleValve() bool GetSingleValve (
              int valve )
Query the state of a valve.
Parameters
        number of valve /*!
 valve
Returns
     state of the valve
11.101.2.4 GetValve() int GetValve ( )
Query the state of the values.
Returns
     the current state of the valves as a bit pattern.
11.101.2.5 IsPumpMotorOn() bool IsPumpMotorOn (
              int index )
11.101.2.6 PumpOff() void PumpOff (
              int index )
11.101.2.7 PumpOn() void PumpOn (
              int index,
              {\it short}\ {\it speed} )
```

Opens or Closes a valve.

Parameters

valve	number of valve to be changed /*!
onoff	open or close the valve

```
11.101.2.10 SetValve() void SetValve ( int value )
```

Open or Close valves.

Parameters

value	bit pattern of valves which should be open.
-------	---

11.101.3 Member Data Documentation

```
11.101.3.1 m_pMcsBus_MotorControlNet CMcsBus_MotorControlNet ^ m_pMcsBus_MotorControlNet [protected]
```

11.101.3.2 m_pRoboFluidDevice CRoboFluidDevice* m_pRoboFluidDevice [protected]

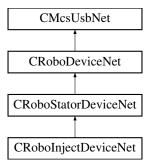
11.101.4 Property Documentation

11.101.4.1 McsBus_MotorControl CMcsBus_MotorControlNet^ McsBus_MotorControl [get]

11.102 CRobolnjectDeviceNet Class Reference

CRobolnjectDeviceNet is the to control the MCS Robolnject device

Inheritance diagram for CRobolnjectDeviceNet:



Public Member Functions

CRobolnjectDeviceNet (void)

Additional Inherited Members

11.102.1 Detailed Description

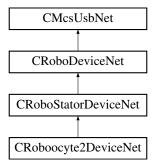
CRobolnjectDeviceNet is the to control the MCS Robolnject device

11.102.2 Constructor & Destructor Documentation

11.103 CRoboocyte2DeviceNet Class Reference

CRoboocyte2DeviceNet is the class to control the MCS Roboocyte2 device

Inheritance diagram for CRoboocyte2DeviceNet:



Public Member Functions

- CRoboocyte2DeviceNet (void)
- void SetAxisLED (bool onoff)
- bool GetAxisLED ()
- CRoboDacqNet ^ GetRoboDacq ()
- CRoboFluidDeviceNet [^] GetRoboFluidDevice ()
- CGilsonDeviceNet ^ GetGilsonDevice ()
- CMcsBus_ExtensionNet ^ GetMcsBus_Extension ()

Additional Inherited Members

11.103.1 Detailed Description

CRoboocyte2DeviceNet is the class to control the MCS Roboocyte2 device

11.103.2 Constructor & Destructor Documentation

```
11.103.2.1 CRoboocyte2DeviceNet() CRoboocyte2DeviceNet (
void )
```

11.103.3 Member Function Documentation

```
11.103.3.1 GetAxisLED() bool GetAxisLED ( )
```

```
11.103.3.2 GetGilsonDevice() CGilsonDeviceNet ^ GetGilsonDevice ( )
```

```
11.103.3.3 GetMcsBus_Extension() CMcsBus_ExtensionNet ^ GetMcsBus_Extension ( )
```

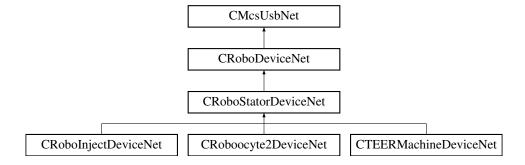
```
11.103.3.4 GetRoboDacq() CRoboDacqNet ^ GetRoboDacq ( )
```

11.103.3.5 GetRoboFluidDevice() CRoboFluidDeviceNet ^ GetRoboFluidDevice ()

```
11.103.3.6 SetAxisLED() void SetAxisLED (
          bool onoff )
```

11.104 CRoboStatorDeviceNet Class Reference

Inheritance diagram for CRoboStatorDeviceNet:



Classes

· class RoboMainStatorLowLevelCommands

Public Member Functions

- CRoboStatorDeviceNet (void)
- void FindReferenceXY ()
- void FindReferenceXY (int timeout)
- void FindReferenceZ ()
- void FindReferenceZ (int timeout)
- void FindReferencel ()
- void FindReferencel (int timeout)
- unsigned char HasRefXY ()
- unsigned char HasRefZ ()
- unsigned char HasRefl ()
- void MoveAbsXY (int x, int y)
- void MoveAbsXY (int x, int y, int timeout)
- void MoveAbsZ (int z)
- void MoveAbsZ (int z, int timeout)
- void MoveAbsI (int i)
- void MoveAbsI (int i, int timeout)
- void StopMovementXY ()
- void StopMovementXY (int timeout)
- void StopMovementZ ()
- void StopMovementZ (int timeout)
- void StopMovementI ()
- void StopMovementI (int timeout)
- void SetCurrentAndAirXY (unsigned short onoff)

- void SetCurrentAndAirXY (unsigned short onoff, int timeout)
- void GetCurrentPositionXY ([System::Runtime::InteropServices::Out]int% x, [System::Runtime::Interop←
 Services::Out]int% y)
- void GetCurrentPositionZ ([System::Runtime::InteropServices::Out]int% z)
- void GetCurrentPositionI ([System::Runtime::InteropServices::Out]int% i)
- void SetVelocityXY (int v)
- void SetVelocityZ (int v)
- void SetVelocityI (int v)
- void SetSpeedXY (int v)
- void SetSpeedZ (int v)
- void SetSpeedI (int v)
- void SetSpeedNativeXY (int v)
- void SetSpeedNativeZ (int v)
- void SetSpeedNativel (int v)
- void SetAccelerationXY (int a)
- void SetAccelerationZ (int a)
- void SetAccelerationI (int a)
- void SetAccelerationNativeXY (int a)
- void SetAccelerationNativeZ (int a)
- · void SetAccelerationNativel (int a)

Properties

• RoboMainStatorLowLevelCommands RoboMainStatorLowLevelCommand [get]

Additional Inherited Members

11.104.1 Constructor & Destructor Documentation

```
11.104.1.1 CRoboStatorDeviceNet() CRoboStatorDeviceNet (
void )
```

11.104.2 Member Function Documentation

```
11.104.2.1 FindReferencel() [1/2] void FindReferenceI ( )
```

```
11.104.2.2 FindReference() [2/2] void FindReference()
    int timeout )
```

```
11.104.2.3 FindReferenceXY() [1/2] void FindReferenceXY ( )
11.104.2.4 FindReferenceXY() [2/2] void FindReferenceXY (
             int timeout )
11.104.2.5 FindReferenceZ() [1/2] void FindReferenceZ ( )
11.104.2.6 FindReferenceZ() [2/2] void FindReferenceZ (
             int timeout )
11.104.2.7 GetCurrentPositionI() void GetCurrentPositionI (
             [System::Runtime::InteropServices::Out] int% i )
11.104.2.8 GetCurrentPositionXY() void GetCurrentPositionXY (
             [System::Runtime::InteropServices::Out] int% x,
             [System::Runtime::InteropServices::Out] int% y )
11.104.2.9 GetCurrentPositionZ() void GetCurrentPositionZ (
             [System::Runtime::InteropServices::Out] int% z )
11.104.2.10 HasRefl() unsigned char HasRefl ( )
11.104.2.11 HasRefXY() unsigned char HasRefXY ( )
11.104.2.12 HasRefZ() unsigned char HasRefZ ( )
```

```
11.104.2.13 MoveAbsI() [1/2] void MoveAbsI (
               int i)
11.104.2.14 MoveAbsI() [2/2] void MoveAbsI (
              int i,
               int timeout )
11.104.2.15 MoveAbsXY() [1/2] void MoveAbsXY (
               int x_{i}
               int y )
11.104.2.16 MoveAbsXY() [2/2] void MoveAbsXY (
               int x,
               int y,
               int timeout )
11.104.2.17 MoveAbsZ() [1/2] void MoveAbsZ (
              int z)
11.104.2.18 MoveAbsZ() [2/2] void MoveAbsZ (
               int z,
               int timeout )
\textbf{11.104.2.19} \quad \textbf{SetAccelerationI()} \quad \texttt{void SetAccelerationI} \quad \textbf{(}
               int a)
\textbf{11.104.2.20} \quad \textbf{SetAccelerationNativeI()} \quad \texttt{void SetAccelerationNativeI} \quad \textbf{(}
              int a)
11.104.2.21 SetAccelerationNativeXY() void SetAccelerationNativeXY (
               int a )
```

```
11.104.2.22 SetAccelerationNativeZ() void SetAccelerationNativeZ (
            int a )
11.104.2.23 SetAccelerationXY() void SetAccelerationXY (
            int a)
11.104.2.24 SetAccelerationZ() void SetAccelerationZ (
            int a)
11.104.2.25 SetCurrentAndAirXY() [1/2] void SetCurrentAndAirXY (
            unsigned short onoff )
11.104.2.26 SetCurrentAndAirXY() [2/2] void SetCurrentAndAirXY (
            unsigned short onoff,
             int timeout )
11.104.2.27 SetSpeedI() void SetSpeedI (
            int v)
11.104.2.28 SetSpeedNativel() void SetSpeedNativeI (
            int v )
11.104.2.29 SetSpeedNativeXY() void SetSpeedNativeXY (
             int v)
11.104.2.30 SetSpeedNativeZ() void SetSpeedNativeZ (
            int v)
```

```
11.104.2.31 SetSpeedXY() void SetSpeedXY (
            int v)
11.104.2.32 SetSpeedZ() void SetSpeedZ (
            int v)
11.104.2.33 SetVelocityI() void SetVelocityI (
            int\ v )
11.104.2.34 SetVelocityXY() void SetVelocityXY (
            int v)
11.104.2.35 SetVelocityZ() void SetVelocityZ (
            int v)
11.104.2.36 StopMovementI() [1/2] void StopMovementI ( )
11.104.2.37 StopMovementI() [2/2] void StopMovementI (
            int timeout )
11.104.2.38 StopMovementXY() [1/2] void StopMovementXY ( )
11.104.2.39 StopMovementXY() [2/2] void StopMovementXY (
            int timeout )
11.104.2.40 StopMovementZ() [1/2] void StopMovementZ ( )
```

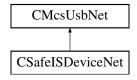
11.104.2.41 StopMovementZ() [2/2] void StopMovementZ (int timeout)

11.104.3 Property Documentation

11.104.3.1 RoboMainStatorLowLevelCommand RoboMainStatorLowLevelCommands ^ RoboMainStator ← LowLevelCommand [get]

11.105 CSafeISDeviceNet Class Reference

Inheritance diagram for CSafeISDeviceNet:



Public Member Functions

CSafeISDeviceNet (void)

Initializes a new instance of the CSafelSDeviceNet class.

~CSafeISDeviceNet (void)

Releases unmanaged resources and performs other cleanup operations before the CSafeISDeviceNet is reclaimed by garbage collection.

• void SetSwitches (unsigned short switches)

Sets the switches for all electrodes on the device. Do not use during measurement

void SetAdcChannels (unsigned char channels)

Sets the ADC channels you want to be sampled

void SetAdcSamplePos (array< unsigned short >^ positions)

Sets the sample position of the ADC.

• void SetDacMode (unsigned char mode)

Sets the DAC mode.

- void SetDacPulseform (array< short $>^{\land}$ pulseform)

Sets the DAC pulseform.

void SetDacPeriode (unsigned int periode)

Sets the DAC periode.

Properties

CRoboDeviceNet[^] RoboDevice [get]

Gets the CRoboDeviceNet. Use this to control the syringe.

CFluidControlDeviceNet[^] FluidControlDevice [get]

Gets the CFluidControlDeviceNet. Use this to control the valves. Only SetSingleValve is implemented for CSafeISDeviceNet.

• CMcsUsbDacqNet^ DacqDevice [get]

Gets the CMcsUsbDacqNet. Use this to control the data aquisition.

Additional Inherited Members

11.105.1 Detailed Description

11.105.2 Constructor & Destructor Documentation

Initializes a new instance of the CSafeISDeviceNet class.

```
11.105.2.2 \simCSafeISDeviceNet() \simCSafeISDeviceNet ( void )
```

Releases unmanaged resources and performs other cleanup operations before the CSafelSDeviceNet is reclaimed by garbage collection.

11.105.3 Member Function Documentation

```
11.105.3.1 SetAdcChannels() void SetAdcChannels (
unsigned char channels )
```

Sets the ADC channels you want to be sampled

Parameters

channels The bitmap of the 8 channels. Set bit to 1 for the channels you want measure

Sets the sample position of the ADC.

Parameters

positions | The positions in units of 0.1μs.

```
11.105.3.3 SetDacMode() void SetDacMode (
unsigned char mode)
```

Sets the DAC mode.

Parameters

```
mode The mode: 0 = Impedance; 1 = Amperometry
```

Sets the DAC periode.

Parameters

```
periode The periode in units of 10μs.
```

```
11.105.3.5 SetDacPulseform() void SetDacPulseform ( array < short >^{\wedge} pulseform )
```

Sets the DAC pulseform.

Parameters

```
pulseform The pulseform.
```

```
11.105.3.6 SetSwitches() void SetSwitches (
unsigned short switches)
```

Sets the switches for all electrodes on the device. Do not use during measurement

Parameters

switches The switches: See Schematics for the meaning

11.105.4 Property Documentation

```
11.105.4.1 DacqDevice CMcsUsbDacqNet^ DacqDevice [get]
```

Gets the CMcsUsbDacqNet. Use this to control the data aquisition.

11.105.4.2 FluidControlDevice CFluidControlDeviceNet^ FluidControlDevice [get]

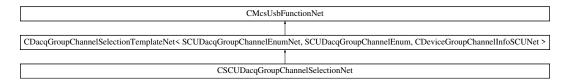
Gets the CFluidControlDeviceNet. Use this to control the valves. Only SetSingleValve is implemented for CSafeISDeviceNet.

```
11.105.4.3 RoboDevice CRoboDeviceNet^ RoboDevice [get]
```

Gets the CRoboDeviceNet. Use this to control the syringe.

11.106 CSCUDacqGroupChannelSelectionNet Class Reference

Inheritance diagram for CSCUDacqGroupChannelSelectionNet:



Public Member Functions

CSCUDacqGroupChannelSelectionNet (CMcsUsbNet[^] mcsusb)

Additional Inherited Members

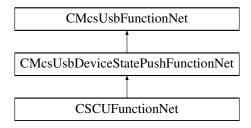
11.106.1 Constructor & Destructor Documentation

11.106.1.1 CSCUDacqGroupChannelSelectionNet() CSCUDacqGroupChannelSelectionNet (CMcsUsbNet^ mcsusb)

11.107 CSCUFunctionNet Class Reference

CSCUFunctionNet is the class to control the SCU device

Inheritance diagram for CSCUFunctionNet:



Public Member Functions

- delegate void OnGetAvailableHeadstages (uint32 t AvailableHeadstages)
- delegate void OnlsHeadstageAvailable (uint32 t Headstage, bool available)
- CSCUFunctionNet (CMcsUsbNet[^] mcsusb, CMcsUsbFunctionPointerContainer[^] pSCUFunctionPointer←
 Container)

Initializes a new instance of the CSCUFunctionNet class.

- CSCUFunctionNet (CMcsUsbNet[^] mcsusb)
- virtual ∼CSCUFunctionNet ()
- !CSCUFunctionNet ()
- uint32_t GetAvailableHeadstages ()

Gets a bitmap of available headstages.

bool IsInDacqLegacyMode ()

Is the SCU in legacy mode

void SetDacqLegacyMode (bool enable)

Enable the SCU legacy mode

• uint32 t GetMaxStimulusChannelsPerHeadstage ()

Gets the maximal number of stimulation channels a headstage can have.

• uint32_t GetMaxNumberOfHeadstages ()

Gets the maximal number of headstages.

SCU_HeadstageIdEnumNet GetHeadstageID (uint32_t Headstage)

Gets the headstage fpga ID.

bool IsHeadstageAvailable (uint32_t Headstage)

Checks whether the given headstage is available.

void PowerHS (uint32_t Headstage, bool power)

Power the HS

• bool IsHSPowered (uint32_t Headstage)

Is the HS powered

bool HasHSPowerSwitch ()

Has SCU HS power switch

String \(^\) GetHeadstageSerialNumber (uint32 t Headstage)

Gets the serial number of a given headstage.

• uint32 t GetHeadstageNumberOfAnalogChannels (uint32 t Headstage)

Gets the number of analog channels for a given headstage.

uint32 t GetHeadstageNumberOfStimulationChannels (uint32 t Headstage)

Gets the number of stimulation channels for a given headstage.

uint32_t GetHeadstageGainInPermille (uint32_t Headstage)

Gets the gain factor in permille for a given headstage.

uint32_t GetHeadstageAdcRangeInMicroVolt (uint32_t Headstage)

Gets the ADC Range in uV for a given headstage.

uint32 t GetHeadstageAdcBits (uint32 t Headstage)

Gets the Number of ADC bits for a given headstage.

uint32_t GetHeadstageDacVoltageRangeInMilliVolt (uint32_t Headstage)

Gets the DAC Voltage Range in mV for a given headstage.

uint32 t GetHeadstageDacVoltageResolutionInMicroVolt (uint32 t Headstage)

Gets the DAC Voltage Resolution in uV for a given headstage.

uint32_t GetHeadstageDacCurrentRangeInMicroAmpere (uint32_t Headstage)

Gets the DAC Current Range in uA for a given headstage.

uint32 t GetHeadstageDacCurrentResolutionInNanoAmpere (uint32 t Headstage)

Gets the DAC Current Resolution in nA for a given headstage.

uint32_t GetHeadstageDacBits (uint32_t Headstage)

Gets the Number of DAC bits for a given headstage.

uint32_t GetHeadstageSamplerate (uint32_t Headstage)

Gets the Samplerate of a given headstage.

bool GetHeadstagePowerStateAtStart (uint32_t Headstage)

Gets the Power Status at SCU Power on of a given headstage.

• void SetHeadstagePowerStateAtStart (uint32_t Headstage, bool Powerstatus)

Sets the Power Status at SCU Power on of a given headstage.

bool HasGalvanicIsolation ()

Has galvanic isolated hardware

• bool HasAnalogOut ()

Has AnalogOut hardware

void EnableAnalogOut (bool enable)

Enables AnalogOut globally

bool IsAnalogOutEnabled ()

Is AnalogOut enabled

void SetAnalogOutDACRange (AnalogOut_DAC_Range_EnumNet range)

Sets the analog out DAC range

AnalogOut_DAC_Range_EnumNet GetAnalogOutDACRange ()

Gets the analog out DAC range

void SetAnalogOutADCRange (uint32_t range)

Sets the analog out ADC range

• uint32_t GetAnalogOutADCRange ()

Gets the analog out ADC range

void AutomaticAnalogOut (bool automatic)

Sets automatic source channel selection

bool IsAutomaticAnalogOut ()

Is Automatic source channel selection selected

void SetAnalogOutChannels (uint32 t out channel, uint32 t source channel)

Set the source channel number for a certain output channel

uint32_t GetAnalogOutChannels (uint32_t out_channel)

Get the connected source channel number for a certain output channel

 void SetReferenceElectrodeSwitchState (uint32_t Headstage, ReferenceElectrodeSwitchPositionEnumNet NewSwitchPos)

Sets the position of the switch for the reference electrode

ReferenceElectrodeSwitchPositionEnumNet GetReferenceElectrodeSwitchState (uint32 t Headstage)

Gets the position of the switch for the reference electrode

• void SetReferenceElectrodeMode (uint32_t Headstage, ReferenceElectrodeModeEnumNet NewValue)

Sets the mode for the reference electrode

• ReferenceElectrodeModeEnumNet GetReferenceElectrodeMode (uint32_t Headstage)

Gets the mode for the reference electrode

- CFilterPropertyNet ^ GetFilterProperty (SCUDacqGroupChannelEnumNet GroupID, uint32_t FilterNumber)
 Gets the filter property
- array< CFilterPropertyNet[^]> [^] GetFilterProperties (SCUDacqGroupChannelEnumNet GroupID, int filter
 — Configurations_Length)

Gets multiple filter properties

Events

- OnGetAvailableHeadstages^ GetAvailableHeadstagesEvent [add, remove, raise]

 Event fires when the bitmap of available headstages has changed
- OnlsHeadstageAvailable^\ IsHeadstageAvailableEvent [add, remove, raise]

Event fires when 'true' if the headstage is connected for the headstage to query has changed

Additional Inherited Members

11.107.1 Detailed Description

CSCUFunctionNet is the class to control the SCU device

11.107.2 Constructor & Destructor Documentation

```
11.107.2.1 CSCUFunctionNet() [1/2] CSCUFunctionNet (

CMcsUsbNet^ mcsusb,

CMcsUsbFunctionPointerContainer^ pSCUFunctionPointerContainer)
```

Initializes a new instance of the CSCUFunctionNet class.

```
11.107.2.2 CSCUFunctionNet() [2/2] CSCUFunctionNet (
CMcsUsbNet^ mcsusb )
```

```
11.107.2.3 ~CSCUFunctionNet() virtual ~CSCUFunctionNet () [virtual]
```

```
11.107.2.4 "!CSCUFunctionNet() !CSCUFunctionNet ( )
```

11.107.3 Member Function Documentation

Sets automatic source channel selection

automatic	Automatic
-----------	-----------

```
11.107.3.2 EnableAnalogOut() void EnableAnalogOut (
```

bool enable)

Enables AnalogOut globally

Parameters

enable Enable

11.107.3.3 GetAnalogOutADCRange() uint32_t GetAnalogOutADCRange ()

Gets the analog out ADC range

Returns

Range

Get the connected source channel number for a certain output channel

Parameters

out_channel Output channel number

Returns

Source channel number

11.107.3.5 GetAnalogOutDACRange() AnalogOut_DAC_Range_EnumNet GetAnalogOutDACRange ()

Gets the analog out DAC range

Returns

Range

11.107.3.6 GetAvailableHeadstages() uint32_t GetAvailableHeadstages ()

Gets a bitmap of available headstages.

Returns

The bitmap of available headstages.

Gets multiple filter properties

Parameters

GroupID	The group ID
filterConfigurations_Length	The maximal length of filterConfigurations.

Returns

array of filter properties

```
11.107.3.8 GetFilterProperty() CFilterPropertyNet ^ GetFilterProperty (

SCUDacqGroupChannelEnumNet GroupID,

uint32_t FilterNumber)
```

Gets the filter property

Parameters

GroupID	The group ID
FilterNumber	The filter number

Returns

The filter property

```
11.107.3.9 GetHeadstageAdcBits() uint32_t GetHeadstageAdcBits ( uint32_t Headstage )
```

Gets the Number of ADC bits for a given headstage.

Headstage	The headstage to query.
-----------	-------------------------

Returns

The number of bits the ADC has for the given headstage.

11.107.3.10 GetHeadstageAdcRangeInMicroVolt() uint32_t GetHeadstageAdcRangeInMicroVolt (uint32_t Headstage)

Gets the ADC Range in uV for a given headstage.

Parameters

Headstage	The headstage to query.
-----------	-------------------------

Returns

The ADC Range in uV for the given headstage.

11.107.3.11 GetHeadstageDacBits() uint32_t GetHeadstageDacBits (uint32_t Headstage)

Gets the Number of DAC bits for a given headstage.

Parameters

Headstage The headstage to quer	y.
---------------------------------	----

Returns

The number of bits the DAC has for the given headstage.

Gets the DAC Current Range in uA for a given headstage.

Headstage	The headstage to query.
-----------	-------------------------

Returns

The DAC Current Range in uA for the given headstage.

11.107.3.13 GetHeadstageDacCurrentResolutionInNanoAmpere() uint32_t GetHeadstageDacCurrent↔ ResolutionInNanoAmpere (

```
uint32_t Headstage )
```

Gets the DAC Current Resolution in nA for a given headstage.

Parameters

Headstage	The headstage to query.
-----------	-------------------------

Returns

The DAC Current Resolution in nA for the given headstage.

11.107.3.14 GetHeadstageDacVoltageRangeInMilliVolt() uint32_t GetHeadstageDacVoltageRangeIn↔ MilliVolt (

 $\label{eq:uint32_theadstage} \ \ uint32_t \ \textit{Headstage} \ \)$ Gets the DAC Voltage Range in mV for a given headstage.

Parameters

Headstage The headstage to

Returns

The DAC Voltage Range in mV for the given headstage.

Gets the DAC Voltage Resolution in uV for a given headstage.

Headstage	The headstage to query.
-----------	-------------------------

Returns

The DAC Voltage Resolution in uV for the given headstage.

11.107.3.16 GetHeadstageGainInPermille() uint32_t GetHeadstageGainInPermille (uint32_t Headstage)

Gets the gain factor in permille for a given headstage.

Parameters

Headstage

Returns

The gain factor in permille for the given headstage.

11.107.3.17 GetHeadstageID() SCU_HeadstageIdEnumNet GetHeadstageID (uint32_t Headstage)

Gets the headstage fpga ID.

Parameters

Returns

The headstage fpga ID.

Gets the number of analog channels for a given headstage.

Headstage	The headstage to query.
-----------	-------------------------

Returns

The number of analog channels the headstage has.

Gets the number of stimulation channels for a given headstage.

Parameters

Returns

The number of stimulation channels the headstage has.

11.107.3.20 GetHeadstagePowerStateAtStart() bool GetHeadstagePowerStateAtStart (uint32_t Headstage)

Gets the Power Status at SCU Power on of a given headstage.

Parameters

Headstage	The headstage to query.
-----------	-------------------------

Returns

The Power State at startup for the given headstage: bool false -> off, bool true -> on.

```
11.107.3.21 GetHeadstageSamplerate() uint32_t GetHeadstageSamplerate ( uint32_t Headstage)
```

Gets the Samplerate of a given headstage.

Headstage	The headstage to query.
-----------	-------------------------

Returns

The samplerate in Hz for the given headstage.

11.107.3.22 GetHeadstageSerialNumber() String ^ GetHeadstageSerialNumber (uint32_t Headstage)

Gets the serial number of a given headstage.

Parameters

Headstage

Returns

The serial number of the headstage.

11.107.3.23 GetMaxNumberOfHeadstages() uint32_t GetMaxNumberOfHeadstages ()

Gets the maximal number of headstages.

Returns

The maximal number of headstages.

11.107.3.24 GetMaxStimulusChannelsPerHeadstage() uint32_t GetMaxStimulusChannelsPerHeadstage ()

Gets the maximal number of stimulation channels a headstage can have.

Returns

The maximal number of stimulation channels a headstage can have.

Gets the mode for the reference electrode

ь.					
Pа	ra	m	eı	ıе	rs

Headstage	The headstage number
-----------	----------------------

Returns

The mode

$\textbf{11.107.3.26} \quad \textbf{GetReferenceElectrodeSwitchState()} \quad \texttt{ReferenceElectrodeSwitchPositionEnumNet} \quad \texttt{Get} \leftarrow \texttt{Continue} \quad \texttt$

```
\label{eq:condense} Reference Electrode Switch State \mbox{ (} \\ uint 32\_t \mbox{ \textit{Headstage }} \mbox{)}
```

Gets the position of the switch for the reference electrode

Parameters

Headstage	The headstage number
-----------	----------------------

Returns

The switch position

11.107.3.27 HasAnalogOut() bool HasAnalogOut ()

Has AnalogOut hardware

Returns

Enabled

11.107.3.28 HasGalvanicIsolation() bool HasGalvanicIsolation ()

Has galvanic isolated hardware

Returns

Enabled

```
11.107.3.29 HasHSPowerSwitch() bool HasHSPowerSwitch ( )
Has SCU HS power switch
Returns
     Has Switch
11.107.3.30 IsAnalogOutEnabled() bool IsAnalogOutEnabled ( )
Is AnalogOut enabled
Returns
     Enabled
11.107.3.31 IsAutomaticAnalogOut() bool IsAutomaticAnalogOut ( )
Is Automatic source channel selection selected
Returns
     Automatic
11.107.3.32 | IsHeadstageAvailable() | bool IsHeadstageAvailable (
              uint32_t Headstage )
Checks whether the given headstage is available.
Parameters
 Headstage
              The headstage to query.
Returns
     'true' if the headstage is connected.
11.107.3.33 IsHSPowered() bool IsHSPowered (
```

Is the HS powered

uint32_t Headstage)

Headstage	The headstage to query.
-----------	-------------------------

Returns

'true' if the headstage is powered.

11.107.3.34 | IsInDacqLegacyMode() bool IsInDacqLegacyMode ()

Is the SCU in legacy mode

Returns

Is Enabled

```
11.107.3.35 OnGetAvailableHeadstages() delegate void OnGetAvailableHeadstages ( uint32_t AvailableHeadstages )
```

```
11.107.3.36 OnlsHeadstageAvailable() delegate void OnlsHeadstageAvailable ( uint32_t Headstage, bool available )
```

```
11.107.3.37 PowerHS() void PowerHS (
    uint32_t Headstage,
    bool power)
```

Power the HS

Parameters

Headstage	The headstage to query.	
power	'true' if the headstage is powered.	

${\bf 11.107.3.38} \quad {\bf SetAnalogOutADCRange()} \quad {\tt void SetAnalogOutADCRange ()} \quad {\tt$

uint32_t range)

Sets the analog out ADC range

range	Range
-------	-------

11.107.3.39 SetAnalogOutChannels() void SetAnalogOutChannels (uint32_t out_channel, uint32_t source_channel)

Set the source channel number for a certain output channel

Parameters

out_channel	Output channel number
source_channel	Source channel number

11.107.3.40 SetAnalogOutDACRange() void SetAnalogOutDACRange (AnalogOut_DAC_Range_EnumNet range)

Sets the analog out DAC range

Parameters

range Range

11.107.3.41 SetDacqLegacyMode() void SetDacqLegacyMode (bool *enable*)

Enable the SCU legacy mode

Parameters

enable Enable

11.107.3.42 SetHeadstagePowerStateAtStart() void SetHeadstagePowerStateAtStart (uint32_t Headstage, bool Powerstatus)

Sets the Power Status at SCU Power on of a given headstage.

Headstage	The headstage number
Powerstatus	The Power State at startup for the given headstage: bool false -> off, bool true -> on.

Sets the mode for the reference electrode

Parameters

Headstage	The headstage number
NewValue	The mode

Sets the position of the switch for the reference electrode

Parameters

Headstage	The headstage number
NewSwitchPos	The switch position

11.107.4 Event Documentation

```
11.107.4.1 GetAvailableHeadstagesEvent OnGetAvailableHeadstages^ GetAvailableHeadstagesEvent [add], [remove], [raise]
```

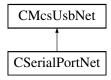
Event fires when the bitmap of available headstages has changed

```
11.107.4.2 IsHeadstageAvailableEvent OnIsHeadstageAvailable^ IsHeadstageAvailableEvent [add], [remove], [raise]
```

Event fires when 'true' if the headstage is connected for the headstage to query has changed

11.108 CSerialPortNet Class Reference

Inheritance diagram for CSerialPortNet:



Public Member Functions

- CSerialPortNet (void)
- void Send (array< byte >^ buffer)
- void Send (String[^] command)
- array< byte > ^ Receive (void)
- array< byte > ^ Receive (int length)
- String ^ ReceiveString (void)
- String ^ ReceiveString (int length)
- int GetBytesAvailable (void)

Additional Inherited Members

11.108.1 Constructor & Destructor Documentation

11.108.2 Member Function Documentation

```
11.108.2.1 GetBytesAvailable() int GetBytesAvailable ( void )
```

11.108.2.3 Receive() [2/2] array
byte>
$$^{\wedge}$$
 Receive (void)

```
11.108.2.4 ReceiveString() [1/2] String ^ ReceiveString (
    int length )

11.108.2.5 ReceiveString() [2/2] String ^ ReceiveString (
    void )

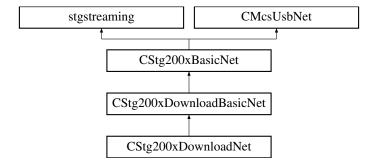
11.108.2.6 Send() [1/2] void Send (
    array< byte >^ buffer )

11.108.2.7 Send() [2/2] void Send (
    String^ command )
```

11.109 CStg200xBasicNet Class Reference

Base class for the Stg200x.

Inheritance diagram for CStg200xBasicNet:



Public Member Functions

virtual ~CStg200xBasicNet ()

The destructor.

void SetOutputRate (uint32_t rate)

Change the output rate of the STG. Valid rates are from 1000 Hz to 50000 Hz.

• uint32_t GetOutputRate ()

Queries the output rate of the STG. Valid rates are from 1000 Hz to 50000 Hz.

void SendStart (uint32 t triggermap)

Start (Trigger) the STG. The startup delay is in the range of a few ms.

void SendStop (uint32_t triggermap)

Stop some or all triggers of the STG.

• void SendStop (uint32_t triggermap, int options)

Stop some or all triggers of the STG.

• void GetStgVersionInfo ([Out]String^% SwVersion, [Out]String^% HwVersion)

Queries software and hardware version.

• void GetAnalogRanges (int channel, [Out]int% URange, [Out]int% IRange)

Gets the range of the analog outputs.

void GetAnalogResolution (int channel, [Out]int% URes, [Out]int% IRes)

Gets the resolution of the analog outputs.

virtual int32_t GetDACResolution ()

Gets number of bits of the DAC resolution.

virtual int32_t GetVoltageRangeInMicroVolt (uint32_t channel)

Gets the Voltage Range of the specified channel in Microvolts.

virtual int32_t GetVoltageResolutionInMicroVolt (uint32_t channel)

Gets the Voltage Resolution of the specified channel in Microvolts.

virtual int32_t GetCurrentRangeInNanoAmp (uint32_t channel)

Gets the Current Range of the specified channel in Nanoamps.

virtual int32 t GetCurrentResolutionInNanoAmp (uint32 t channel)

Gets the Current Resolution of the specified channel in Nanoamps.

• void GetStgProgramInfo ([Out]bool% IsProgrammed, [Out]System::Runtime::InteropServices::ComTypes::

FILETIME% timestamp, [Out]String^% filename, [Out]Guid% guid)

Queries Download information from the STG. If download information was stored by the use of SetStgProgramInfo, this function can be used to retrieve it.

void GetStgProgramInfo ([Out]bool% IsProgrammed, [Out]DateTime% timestamp, [Out]String^% filename, [Out]Guid% guid)

Queries Download information from the STG. If download information was stored by the use of SetStgProgramInfo, this function can be used to retrieve it.

void SetStgProgramInfo (DateTime timestamp, String[∧] filename, Guid guid)

Store Download information in the STG. This function can be used to store the filename and timestamp of the last download for later query.

• uint32_t GetAvailableMemory ()

Gets the amount of memory available in the currently selected segment of the STG.

uint32_t GetTotalMemory ()

Gets the total amount of memory available on the STG (all segments).

virtual uint32_t GetNumberOfAnalogChannels ()

Gets the Number of available analog channels of the device.

virtual uint32_t GetNumberOfSyncoutChannels ()

Gets the Number of available syncout channels of the device.

virtual uint32_t GetNumberOfTriggerInputs ()

Gets the Number of trigger inputs of the device.

virtual uint32_t GetNumberOfHWDACPaths ()

Gets the Number of HW Stimulation DACs of the device.

virtual uint32 t GetNumberOfStimulationSourcesPerElectrode ()

Gets the number of stimulation sources (DACs) per electrode.

virtual void SetVoltageMode (unsigned int channel)

Sets a channel to voltage mode (STG3008-FA and STG400x only).

virtual void SetCurrentMode (unsigned int channel)

Sets a channel to current mode (STG3008-FA and STG400x only).

• virtual void SetVoltageMode ()

Sets all channels to voltage mode (STG3008-FA and STG400x only).

virtual void SetCurrentMode ()

Sets all channels to current mode (STG3008-FA and STG400x only).

virtual void SetMeasurementMode (unsigned int channel)

Sets a channel to measurement mode (STG3008-FA).

- · virtual void SetFAAmplification (unsigned int amplification)
- virtual uint32 t GetFAAmplification ()
- virtual void SetAutocalibrationDisabled (unsigned int channel, bool disable)

Sets the autocalibration configuration.

virtual bool GetAutocalibrationDisabled (unsigned int channel)

Gets the autocalibration configuration.

virtual void SetElectrodeMode (uint32_t electrode, array < ElectrodeModeEnumNet >^ mode)

Puts an electrode in either automatic or manual mode.

virtual void SetElectrodeMode (uint32 t electrode, ElectrodeModeEnumNet mode)

Puts an electrode in either automatic or manual mode.

virtual void SetElectrodeMode (uint32_t Scu_HS, uint32_t electrode, array< ElectrodeModeEnumNet >^
mode)

Puts an electrode in either automatic or manual mode.

virtual void SetElectrodeMode (uint32_t Scu_HS, uint32_t electrode, ElectrodeModeEnumNet mode)

Puts an electrode in either automatic or manual mode.

• virtual uint32 t GetElectrodeMode (uint32 t electrode)

Gets the mode an electrode is in.

virtual uint32 t GetElectrodeMode (uint32 t Scu HS, uint32 t electrode)

Gets the mode an electrode is in.

 virtual void SetElectrodeDacMux (uint32_t electrode, uint32_t listmodeIndex, array < ElectrodeDacMuxEnumNet >^ dacMux)

Defines the DAC to use for an electrode.

virtual void SetElectrodeDacMux (uint32_t electrode, uint32_t listmodeIndex, ElectrodeDacMuxEnumNet dacMux)

Defines the DAC to use for an electrode.

 virtual void SetElectrodeDacMux (uint32_t Scu_HS, uint32_t electrode, uint32_t listmodeIndex, ElectrodeDacMuxEnumNet dacMux)

Defines the DAC to use for an electrode.

virtual void SetElectrodeDacMux (uint32_t Scu_HS, uint32_t electrode, uint32_t listmodeIndex, array
 ElectrodeDacMuxEnumNet >^ dacMux)

Defines the DAC to use for an electrode.

• virtual ElectrodeDacMuxEnumNet GetElectrodeDacMux (uint32_t electrode, uint32_t listmodeIndex)

Gets the DAC which is used for an electrode.

virtual ElectrodeDacMuxEnumNet GetElectrodeDacMux (uint32_t Scu_HS, uint32_t electrode, uint32_
 t listmodeIndex)

Gets the DAC which is used for an electrode.

virtual void SetElectrodeEnable (uint32_t electrode, uint32_t listmodeIndex, array< bool >^ enable)

Enables or disables the stimulation switch for an electrode.

virtual void SetElectrodeEnable (uint32 t electrode, uint32 t listmodeIndex, bool enable)

Enables or disables the stimulation switch for an electrode.

virtual void SetElectrodeEnable (uint32_t Scu_HS, uint32_t electrode, uint32_t listmodeIndex, bool enable)

Enables or disables the stimulation switch for an electrode.

virtual void SetElectrodeEnable (uint32_t Scu_HS, uint32_t electrode, uint32_t listmodeIndex, array< bool
 <p>^ enable)

Enables or disables the stimulation switch for an electrode.

• virtual bool GetElectrodeEnable (uint32 t electrode, uint32 t listmodeIndex)

Gets weather an electrode is enabled or disabled for stimulation.

virtual bool GetElectrodeEnable (uint32_t Scu_HS, uint32_t electrode, uint32_t listmodeIndex)

Gets weather an electrode is enabled or disabled for stimulation.

• virtual void SetExternalElectrodeEnable (uint32_t electrode, uint32_t listmodeIndex, array< bool >^ enable)

Enables or disables the stimulation switch for an external electrode.

• virtual void SetExternalElectrodeEnable (uint32_t electrode, uint32_t listmodeIndex, bool enable)

Enables or disables the stimulation switch for an external electrode.

virtual bool GetExternalElectrodeEnable (uint32_t electrode, uint32_t listmodeIndex)

Gets weather an electrode is enabled or disabled for stimulation.

virtual void SetBlankingEnable (uint32_t electrode, bool enable)

Defines whether an electrode should be blanked while stimulation is in progress.

virtual void SetBlankingEnable (uint32_t electrode, array< bool >^ enable)

Defines whether an electrode should be blanked while stimulation is in progress.

virtual void SetBlankingEnable (uint32_t Scu_HS, uint32_t electrode, bool enable)

Defines whether an electrode should be blanked while stimulation is in progress.

virtual void SetBlankingEnable (uint32_t Scu_HS, uint32_t electrode, array< bool >^ enable)

Defines whether an electrode should be blanked while stimulation is in progress.

virtual bool GetBlankingEnable (uint32 t electrode)

Gets whether an electrode should be blanked while stimulation is in progress.

virtual bool GetBlankingEnable (uint32 t Scu HS, uint32 t electrode)

Gets whether an electrode should be blanked while stimulation is in progress.

virtual void SetEnableAmplifierProtectionSwitch (uint32 t electrode, bool enable)

Defines whether the Amplifier Protection Switch is openend while stimulation is in progress.

virtual void SetEnableAmplifierProtectionSwitch (uint32 t electrode, array< bool >^ enable)

virtual void determinent rotection when (unito2_t electrode, array < boot > enable

Defines whether the Amplifier Protection Switch is openend while stimulation is in progress.

virtual void SetEnableAmplifierProtectionSwitch (uint32_t Scu_HS, uint32_t electrode, bool enable)

Defines whether the Amplifier Protection Switch is openend while stimulation is in progress.

virtual void SetEnableAmplifierProtectionSwitch (uint32_t Scu_HS, uint32_t electrode, array< bool >^ enable)

Defines whether the Amplifier Protection Switch is openend while stimulation is in progress.

virtual bool GetEnableAmplifierProtectionSwitch (uint32 t electrode)

Gets whether the Amplifier Protection Switch is openend while stimulation is in progress.

virtual bool GetEnableAmplifierProtectionSwitch (uint32 t Scu HS, uint32 t electrode)

Gets whether the Amplifier Protection Switch is openend while stimulation is in progress.

- virtual uint32_t GetNumberOfStimulationElectrodes ()
- template<typename digitalsourceenum >
 virtual void SetTriggerSource (unsigned int triggernum, DigitalSource< digitalsourceenum >
 * triggersource, int bitnum offset)
- virtual void SetTriggerSource (unsigned int triggernum, TriggerSourceEnumNet triggersource, int bitnum_← offset)
- virtual void SetTriggerSource (unsigned int triggernum, TriggerSourceEnumNet triggersource)
- virtual TriggerSourceEnumNet GetTriggerSource (unsigned int triggernum)
- virtual void SetListmodeIndexRange (unsigned int electrodeGroup, unsigned int startIndex, unsigned int endIndex, unsigned int mode)

Define the range of list mode indexes to use for the given electrode group.

virtual void GetListmodeIndexRange (unsigned int electrodeGroup, unsigned int &startIndex, unsigned int &endIndex, unsigned int &mode)

Query the range of list mode indexes to use for the given electrode group.

virtual void SetListmodeTriggerSource (unsigned int electrodeGroup, TriggerSourceEnumNet triggersource)

Define the signal which triggers the transition from one list mode entry to the next. After reaching the last entry in the list, the first entry is selected. For triggersource use the Enum which corresponds to the device in use, for example use SCUDigitalSourceEnumNet and cast to TriggerSourceEnumNet if working with an SCU device.

virtual void SetListmodeTriggerSource (unsigned int electrodeGroup, TriggerSourceEnumNet triggersource, int bitnumOffset)

Define the signal which triggers the transition from one list mode entry to the next. After reaching the last entry in the list, the first entry is selected. For triggersource use the Enum which corresponds to the device in use, for example use SCUDigitalSourceEnumNet and cast to TriggerSourceEnumNet if working with an SCU device.

virtual TriggerSourceEnumNet GetListmodeTriggerSource (unsigned int electrodeGroup)

Query the currently active signal which triggers the transition from one list mode entry to the next. For triggersource use the Enum which corresponds to the device in use, for example use SCUDigitalSourceEnumNet and cast to TriggerSourceEnumNet if working with an SCU device.

virtual void ListModeSendStart (unsigned int electrodeGroupMask)

Activate (arm) the Listmode for the selected electrode groups.

virtual void ListModeSendStop (unsigned int electrodeGroupMask)

Deactivate the Listmode for the selected electrode groups.

- virtual void SetHeadstage (unsigned int headstage)
- virtual uint32 t GetHeadstage ()
- virtual void SetDacAmplificationFactor (uint32_t DacNumber, double Factor)

Set the amplification factor for a DAC.

virtual double GetDacAmplificationFactor (uint32 t DacNumber)

Get the amplification factor for a DAC.

virtual void SetDigoutMode (Stg200xDigoutModeEnumNet digoutMode)

Sets the operation mode of the digital outport port, can be Monitor, Manual or SyncOut

virtual Stg200xDigoutModeEnumNet GetDigoutMode ()

Gets the operation mode of the digital outport port, can be Monitor, Manual or SyncOut

virtual void SetDigoutValue (uint32_t digoutValue)

Sets the Value on the digital output port when in manual mode.

virtual uint32 t GetDigoutValue ()

Gets the Value on the digital output port.

virtual uint32_t GetDiginValue ()

Gets the Value on the digital input port.

virtual void SetSyncoutMap (uint32_t channel, uint32_t syncoutMap)

Sets the mapping between external syncout outputs and internal syncout channels.

virtual uint32_t GetSyncoutMap (uint32_t channel)

Gets the mapping between external syncout outputs and internal syncout channels.

Additional Inherited Members

11.109.1 Detailed Description

Base class for the Stg200x.

From this class all STG related classes are derived: Mcs.Usb.CStg200xDownloadBasicNet Mcs.Usb.CStg200xDownloadNet for Download Mode and Mcs.Usb.CStg200xStreamingNet for Streaming Mode.

CStg200xBasicNet is the base class to control MCS STG device.

11.109.2 Constructor & Destructor Documentation

11.109.2.1 ~CStg200xBasicNet() virtual ~CStg200xBasicNet () [virtual]

The destructor.

11.109.3 Member Function Documentation

Gets the range of the analog outputs.

Parameters

channel	The channel which is queried.
URange	The Voltage range in mV.
IRange	The Current range in uA.

Gets the resolution of the analog outputs.

Parameters

channel	The channel which is queried.
URes	The Voltage resolution in mV.
IRes	The Current resolution in uA.

```
11.109.3.3 GetAutocalibrationDisabled() virtual bool GetAutocalibrationDisabled ( unsigned int channel ) [virtual]
```

Gets the autocalibration configuration.

Parameters

channel The channel number.

Returns

true if autocalibration is disabled.

11.109.3.4 GetAvailableMemory() uint32_t GetAvailableMemory ()

Gets the amount of memory available in the currently selected segment of the STG.

Returns

The memory available in the currently selected segment in bytes.

```
11.109.3.5 GetBlankingEnable() [1/2] virtual bool GetBlankingEnable ( uint32_t electrode ) [virtual]
```

Gets whether an electrode should be blanked while stimulation is in progress.

Parameters

```
electrode The electrode number.
```

Returns

true if blanking is enabled while stimulation is in progress.

Gets whether an electrode should be blanked while stimulation is in progress.

Parameters

Scu HS	The SCU headstage number.
	9

Parameters

electrode	The electrode number.
electione	I THE ELECTIONS HUTTIDES.

Returns

true if blanking is enabled while stimulation is in progress.

```
11.109.3.7 GetCurrentRangeInNanoAmp() virtual int32_t GetCurrentRangeInNanoAmp ( uint32_t channel) [virtual]
```

Gets the Current Range of the specified channel in Nanoamps.

Parameters

channel	Channel which is queried.
---------	---------------------------

Returns

The Current Range of the specified channel in Nanoamps.

11.109.3.8 GetCurrentResolutionInNanoAmp() virtual int32_t GetCurrentResolutionInNanoAmp (uint32_t channel) [virtual]

Gets the Current Resolution of the specified channel in Nanoamps.

Parameters

channel	Channel which is queried.
---------	---------------------------

Returns

The Current Resolution of the specified channel in Nanoamps.

```
11.109.3.9 GetDacAmplificationFactor() virtual double GetDacAmplificationFactor ( uint32_t DacNumber ) [virtual]
```

Get the amplification factor for a DAC.

Parameters

DacNumber	The number of the DAC.

Returns

the amplification factor for the DAC queried, range is from -1.99999 to +1.99999.

11.109.3.10 GetDACResolution() virtual int32_t GetDACResolution () [virtual]

Gets number of bits of the DAC resolution.

Returns

The DAC resolution in bits.

11.109.3.11 GetDiginValue() virtual uint32_t GetDiginValue () [virtual]

Gets the Value on the digital input port.

Returns

The current value on the digital inputs.

11.109.3.12 GetDigoutMode() virtual Stg200xDigoutModeEnumNet GetDigoutMode () [virtual]

Gets the operation mode of the digital outport port, can be Monitor, Manual or SyncOut

Returns

The current operation mode.

11.109.3.13 GetDigoutValue() virtual uint32_t GetDigoutValue () [virtual]

Gets the Value on the digital output port.

Returns

The current value on the digital outputs.

Gets the DAC which is used for an electrode.

Parameters

electrode	The electrode number.
listmodeIndex	The index for listmode.

Returns

The DAC in use, can be 1, 2 or 3. If the electrode is grounded 0 is returned.

Gets the DAC which is used for an electrode.

Parameters

Scu_HS	The SCU headstage number.
--------	---------------------------

Parameters

electrode	The electrode number.
listmodeIndex	The index for listmode.

Returns

The DAC in use, can be 1, 2 or 3. If the electrode is grounded 0 is returned.

Gets weather an electrode is enabled or disabled for stimulation.

Parameters

electrode	The electrode number.
listmodeIndex	The index for listmode.

Returns

true if the electrode is enabled, false if it is disabled.

Gets weather an electrode is enabled or disabled for stimulation.

Parameters

Scu_HS	The SCU headstage number.
--------	---------------------------

Parameters

electrode	The electrode number.
listmodeIndex	The index for listmode.

Returns

true if the electrode is enabled, false if it is disabled.

```
11.109.3.18 GetElectrodeMode() [1/2] virtual uint32_t GetElectrodeMode ( uint32_t electrode ) [virtual]
```

Gets the mode an electrode is in.

Parameters

electrode	The electrode number.
electione	i i ile electione iluitibei.

Returns

0 for automatic and 3 for manual mode.

```
11.109.3.19 GetElectrodeMode() [2/2] virtual uint32_t GetElectrodeMode ( uint32_t Scu_HS, uint32_t electrode ) [virtual]
```

Gets the mode an electrode is in.

Scu_HS The SCU headstage number.

Parameters

electrode	The electrode number.
-----------	-----------------------

Returns

0 for automatic and 3 for manual mode.

Gets whether the Amplifier Protection Switch is openend while stimulation is in progress.

Parameters

electrode The electrode nu	mber.
----------------------------	-------

Returns

true if the switch is to be opened, false if it is closed while stimulation is in progress.

Gets whether the Amplifier Protection Switch is openend while stimulation is in progress.

Parameters

Scu_HS	The SCU headstage number.
--------	---------------------------

electrode The electrode number	er.
--------------------------------	-----

Returns

true if the switch is to be opened, false if it is closed while stimulation is in progress.

Gets weather an electrode is enabled or disabled for stimulation.

Parameters

electrode	The electrode number.
listmodeIndex	The index for listmode.

Returns

true if the electrode is enabled, false if it is disabled.

```
11.109.3.23 GetFAAmplification() virtual uint32_t GetFAAmplification ( ) [virtual]
```

```
11.109.3.24 GetHeadstage() virtual uint32_t GetHeadstage ( ) [virtual]
```

Query the range of list mode indexes to use for the given electrode group.

Parameters

startIndex	The index of the first active element in the listmode list.
endIndex	The index of the last active element in the listmode list.
mode	0 for "start with startIndex", 1 for "start with endIndex".

Query the currently active signal which triggers the transition from one list mode entry to the next. For triggersource use the Enum which corresponds to the device in use, for example use SCUDigitalSourceEnumNet and cast to TriggerSourceEnumNet if working with an SCU device.

Parameters

Group The electrodegroup for which the triggersource is queried.
--

Returns

One of the possible sources for the transition.

11.109.3.27 GetNumberOfAnalogChannels() virtual uint32_t GetNumberOfAnalogChannels () [virtual]

Gets the Number of available analog channels of the device.

Returns

The number of analog channels.

11.109.3.28 GetNumberOfHWDACPaths() virtual uint32_t GetNumberOfHWDACPaths () [virtual]

Gets the Number of HW Stimulation DACs of the device.

Returns

The number of independent HW Stimulation outputs.

```
11.109.3.29 GetNumberOfStimulationElectrodes() virtual uint32_t GetNumberOfStimulationElectrodes ( ) [virtual]
```

```
11.109.3.30 GetNumberOfStimulationSourcesPerElectrode() virtual uint32_t GetNumberOfStimulation← SourcesPerElectrode ( ) [virtual]
```

Gets the number of stimulation sources (DACs) per electrode.

Returns

The number of stimulation sources (DACs) per electrode.

```
11.109.3.31 GetNumberOfSyncoutChannels() virtual uint32_t GetNumberOfSyncoutChannels () [virtual]
```

Gets the Number of available syncout channels of the device.

Returns

The number of analog channels.

11.109.3.32 GetNumberOfTriggerInputs() virtual uint32_t GetNumberOfTriggerInputs () [virtual]

Gets the Number of trigger inputs of the device.

Returns

The number of trigger inputs.

11.109.3.33 GetOutputRate() uint32_t GetOutputRate ()

Queries the output rate of the STG. Valid rates are from 1000 Hz to 50000 Hz.

Returns

Returns the current output rate in Hz.

11.109.3.34 GetStgProgramInfo() [1/2] void GetStgProgramInfo (

```
[Out] bool% IsProgrammed,
[Out] DateTime% timestamp,
[Out] String^% filename,
[Out] Guid% guid)
```

Queries Download information from the STG. If download information was stored by the use of SetStgProgramInfo, this function can be used to retrieve it.

IsProgrammed	Flag wether download information is valid.
timestamp	The timestamp of last download.
filename	The filename of the downlaoded waveform.
guid	A GUID.

Queries Download information from the STG. If download information was stored by the use of SetStgProgramInfo, this function can be used to retrieve it.

Parameters

IsProgrammed	Flag wether download information is valid.
timestamp	The timestamp of last download.
filename	The filename of the downlaoded waveform.

Queries software and hardware version.

Parameters

SwVersion	The current Software Version of the STG.
HwVersion	The Hardware Revision of the STG.

Gets the mapping between external syncout outputs and internal syncout channels.

Parameters

channel	The external syncout output channel number (zero based).

Returns

The bitmap of internal syncout channels mapped to channel.

11.109.3.38 GetTotalMemory() uint32_t GetTotalMemory ()

Gets the total amount of memory available on the STG (all segments).

Returns

The total memory available on the STG in bytes.

```
11.109.3.39 GetTriggerSource() virtual TriggerSourceEnumNet GetTriggerSource ( unsigned int triggernum ) [virtual]
```

```
11.109.3.40 GetVoltageRangeInMicroVolt() virtual int32_t GetVoltageRangeInMicroVolt ( uint32_t channel) [virtual]
```

Gets the Voltage Range of the specified channel in Microvolts.

Parameters

channel	Channel which is queried.

Returns

The Voltage Range of the specified channel in Microvolts.

```
11.109.3.41 GetVoltageResolutionInMicroVolt() virtual int32_t GetVoltageResolutionInMicroVolt ( uint32_t channel ) [virtual]
```

Gets the Voltage Resolution of the specified channel in Microvolts.

Parameters

channel	Channel which is queried.

Returns

The Voltage Resolution of the specified channel in Microvolts.

```
11.109.3.42 ListModeSendStart() virtual void ListModeSendStart (
unsigned int electrodeGroupMask) [virtual]
```

Activate (arm) the Listmode for the selected electrode groups.

Parameters

electrodeGroupMask	The bitmask of electrode groups for which the listmode is activated.
--------------------	--

```
11.109.3.43 ListModeSendStop() virtual void ListModeSendStop (
unsigned int electrodeGroupMask) [virtual]
```

Deactivate the Listmode for the selected electrode groups.

Parameters

electrodeGroupMask	The bitmask of electrodegroups for which the listmode is deactivated.	1
ciocii cacai capinacii	The billiagh of dicologicape for which the helificac is acastrated.	п

```
11.109.3.44 SendStart() void SendStart ( uint32_t triggermap )
```

Start (Trigger) the STG. The startup delay is in the range of a few ms.

Parameters

triggermap	A bitmap of triggers which will be started.
------------	---

```
11.109.3.45 SendStop() [1/2] void SendStop ( uint32_t triggermap )
```

Stop some or all triggers of the STG.

Parameters

triggerman	A bitmap of triggers which will be stopped.
unggermap	/ A bitmap of triggers willon will be stopped.

Stop some or all triggers of the STG.

Parameters

triggermap	A bitmap of triggers which will be stopped.	
options	bitmap of options, currently only STOP_OPTION_SAVESTOP (0x80) is defined, which bypasses	
	the stop commands when a syncout assossiated with a given sync-out has bit 1 (0x02) set. Can	
	be used e.g. to prevent a stop while a biphasic stimulation pulse is active	

```
11.109.3.47 SetAutocalibrationDisabled() virtual void SetAutocalibrationDisabled (
unsigned int channel,
bool disable) [virtual]
```

Sets the autocalibration configuration.

Parameters

Cl	hannel	The channel number.
d	isable	true if autocalibration is to be disabled.

```
11.109.3.48 SetBlankingEnable() [1/4] virtual void SetBlankingEnable ( uint32_t electrode, array< bool >^{\land} enable ) [virtual]
```

Defines whether an electrode should be blanked while stimulation is in progress.

Parameters

electrode	The electrode number.	
enable	True if the switch is to be opened, false if it is to remain closed while stimulation is in progress.	1

Defines whether an electrode should be blanked while stimulation is in progress.

Parameters

electrode	The electrode number.	
enable	True if the switch is to be opened, false if it is to remain closed while stimulation is in progress.	

Defines whether an electrode should be blanked while stimulation is in progress.

Parameters

Scu_HS	The SCU headstage number.
--------	---------------------------

Parameters

electrode	The electrode number.
enable	True if the switch is to be opened, false if it is to remain closed while stimulation is in progress.

Defines whether an electrode should be blanked while stimulation is in progress.

Parameters

Scu_HS	The SCU headstage number.
--------	---------------------------

Parameters

electrode	The electrode number.
enable	True if the switch is to be opened, false if it is to remain closed while stimulation is in progress.

11.109.3.52 SetCurrentMode() [1/2] virtual void SetCurrentMode () [virtual]

Sets all channels to current mode (STG3008-FA and STG400x only).

```
11.109.3.53 SetCurrentMode() [2/2] virtual void SetCurrentMode ( unsigned int channel ) [virtual]
```

Sets a channel to current mode (STG3008-FA and STG400x only).

Parameters

channel	The channel to change.
---------	------------------------

Set the amplification factor for a DAC.

Parameters

DacNumber	The number of the DAC.
Factor	the amplification factor for that DAC, range is from -1.99999 to +1.99999.

11.109.3.55 SetDigoutMode() virtual void SetDigoutMode (Stg200xDigoutModeEnumNet digoutMode) [virtual]

Sets the operation mode of the digital outport port, can be Monitor, Manual or SyncOut

Parameters

digoutMode	The new operation mode.
------------	-------------------------

```
11.109.3.56 SetDigoutValue() virtual void SetDigoutValue ( uint32_t digoutValue ) [virtual]
```

Sets the Value on the digital output port when in manual mode.

digoutValue	The new value on the digital outputs.

```
11.109.3.57 SetElectrodeDacMux() [1/4] virtual void SetElectrodeDacMux ( uint32_t electrode,
```

```
uint32_t listmodeIndex,
array< ElectrodeDacMuxEnumNet >^ dacMux ) [virtual]
```

Defines the DAC to use for an electrode.

Parameters

electrode	The electrode number.
-----------	-----------------------

Parameters

listmodeIndex	The index for listmode.
dacMux	The DAC to use, can be ElectrodeDacMuxEnumNet.Stg1 (1), ElectrodeDacMuxEnumNet.Stg2
	(2) or ElectrodeDacMuxEnumNet.Stg3 (3). To ground an electrode, use
	ElectrodeDacMuxEnumNet.Ground (0).

Defines the DAC to use for an electrode.

Parameters

electrode	The electrode number.
CICCLIOUC	i ilie electione iluilibei.

listmodeIndex	The index for listmode.
dacMux	The DAC to use, can be ElectrodeDacMuxEnumNet.Stg1 (1), ElectrodeDacMuxEnumNet.Stg2
	(2) or ElectrodeDacMuxEnumNet.Stg3 (3). To ground an electrode, use
	ElectrodeDacMuxEnumNet.Ground (0).

Defines the DAC to use for an electrode.

Parameters

Scu_HS	The SCU headstage number.
--------	---------------------------

Parameters

electrode	The electrode number.
-----------	-----------------------

Parameters

listmodeIndex	The index for listmode.
dacMux	The DAC to use, can be ElectrodeDacMuxEnumNet.Stg1 (1), ElectrodeDacMuxEnumNet.Stg2
	(2) or ElectrodeDacMuxEnumNet.Stg3 (3). To ground an electrode, use
	ElectrodeDacMuxEnumNet.Ground (0).

$\textbf{11.109.3.60} \quad \textbf{SetElectrodeDacMux() [4/4]} \quad \text{virtual void SetElectrodeDacMux ()}$

```
uint32_t Scu_HS,
uint32_t electrode,
uint32_t listmodeIndex,
ElectrodeDacMuxEnumNet dacMux ) [virtual]
```

Defines the DAC to use for an electrode.

Parameters

Scu_HS	The SCU headstage number.
--------	---------------------------

Parameters

electrode	The electrode number.
-----------	-----------------------

listmodeIndex	The index for listmode.
dacMux	The DAC to use, can be ElectrodeDacMuxEnumNet.Stg1 (1), ElectrodeDacMuxEnumNet.Stg2 (2) or ElectrodeDacMuxEnumNet.Stg3 (3). To ground an electrode, use
	ElectrodeDacMuxEnumNet.Ground (0).

Enables or disables the stimulation switch for an electrode.

Parameters

Parameters

listmodeIndex	The index for listmode.
enable	1 to enable the electrode, 0 to disable.

Enables or disables the stimulation switch for an electrode.

Parameters

rode The electrode nun	ectrode The electrode number	er.
------------------------	------------------------------	-----

listmodeIndex	The index for listmode.
enable	1 to enable the electrode, 0 to disable.

```
11.109.3.63 SetElectrodeEnable() [3/4] virtual void SetElectrodeEnable ( uint32_t Scu_HS,
```

```
uint32_t electrode,
uint32_t listmodeIndex,
array< bool >^ enable ) [virtual]
```

Enables or disables the stimulation switch for an electrode.

Parameters

Scu_HS	The SCU headstage number.
--------	---------------------------

Parameters

Parameters

listmodeIndex	The index for listmode.
enable	1 to enable the electrode, 0 to disable.

Enables or disables the stimulation switch for an electrode.

Parameters

Scu_HS	The SCU headstage number.
--------	---------------------------

lectrode number.

Parameters

listmodeIndex	The index for listmode.
enable	1 to enable the electrode, 0 to disable.

Puts an electrode in either automatic or manual mode.

Parameters

electrode The elect	trode number.
---------------------	---------------

Returns

0 for automatic and 3 for manual mode.

Puts an electrode in either automatic or manual mode.

Parameters

electrode	The electrode number.

mode	0 for automatic and 3 for manual mode.
moue	i o ioi automatic and 3 ioi manuai mode.

```
11.109.3.67 SetElectrodeMode() [3/4] virtual void SetElectrodeMode ( uint32_t Scu_HS,
```

```
uint32_t electrode,
array< ElectrodeModeEnumNet >^ mode ) [virtual]
```

Puts an electrode in either automatic or manual mode.

Parameters

Scu_HS The SCU headstage number	
-----------------------------------	--

Parameters

electrode	The electrode number.
-----------	-----------------------

Returns

0 for automatic and 3 for manual mode.

Puts an electrode in either automatic or manual mode.

Parameters

Scu HS	The SCU headstage number.
OCU IIO	THE SCO HEAUSTAGE HUITIDEL.

Parameters

electrode The electrode nui	mber.
-----------------------------	-------

mode	0 for automatic and 3 for manual mode.
IIIOUE	i vivi automatic and 5 tol manual mode.

Defines whether the Amplifier Protection Switch is openend while stimulation is in progress.

Parameters

electrode The electrode number.	
enable	True if the switch is to be opened, false if it is to remain closed while stimulation is in progress.

Defines whether the Amplifier Protection Switch is openend while stimulation is in progress.

Parameters

electrode	The electrode number.	
enable	True if the switch is to be opened, false if it is to remain closed while stimulation is in progress.	

Defines whether the Amplifier Protection Switch is openend while stimulation is in progress.

Parameters

ne SCU headstage number.	Scu_HS
--------------------------	--------

electrode	The electrode number.
enable	True if the switch is to be opened, false if it is to remain closed while stimulation is in progress.

11.109.3.72 SetEnableAmplifierProtectionSwitch() [4/4] virtual void SetEnableAmplifierProtection↔ Switch (uint32_t Scu_HS,

uint32_t electrode,
bool enable) [virtual]

Defines whether the Amplifier Protection Switch is openend while stimulation is in progress.

Parameters

Scu_HS	The SCU headstage number.

Parameters

electrode	The electrode number.
enable	True if the switch is to be opened, false if it is to remain closed while stimulation is in progress.

Enables or disables the stimulation switch for an external electrode.

Parameters

-1+	The electronic or make or
electrode	The electrode number.

listmodeIndex	The index for listmode.
enable	1 to enable the electrode, 0 to disable.

Enables or disables the stimulation switch for an external electrode.

Parameters

Parameters

listmodeIndex	The index for listmode.
enable	1 to enable the electrode, 0 to disable.

```
11.109.3.75 SetFAAmplification() virtual void SetFAAmplification ( unsigned int amplification ) [virtual]
```

```
11.109.3.76 SetHeadstage() virtual void SetHeadstage (
unsigned int headstage) [virtual]
```

Define the range of list mode indexes to use for the given electrode group.

Parameters

electrodeGroup	The electrodegroup for which the range is defined.
----------------	--

startIndex	The index of the first active element in the listmode list.
endIndex	The index of the last active element in the listmode list.
mode	0 for "start with startIndex", 1 for "start with endIndex".

```
11.109.3.78 SetListmodeTriggerSource() [1/2] virtual void SetListmodeTriggerSource (
unsigned int electrodeGroup,
TriggerSourceEnumNet triggersource) [virtual]
```

Define the signal which triggers the transition from one list mode entry to the next. After reaching the last entry in the list, the first entry is selected. For triggersource use the Enum which corresponds to the device in use, for example use SCUDigitalSourceEnumNet and cast to TriggerSourceEnumNet if working with an SCU device.

Parameters

electrodeGroup	The electrodegroup for which the triggersource is defined.
----------------	--

Parameters

Define the signal which triggers the transition from one list mode entry to the next. After reaching the last entry in the list, the first entry is selected. For triggersource use the Enum which corresponds to the device in use, for example use SCUDigitalSourceEnumNet and cast to TriggerSourceEnumNet if working with an SCU device.

Parameters

electrodeGroup	The electrodegroup for which the triggersource is defined.
----------------	--

Parameters

triggersource	One of the possible sources for the transition.
bitnumOffset	Number to add to the numeric value of the <i>triggersource</i> enum.

```
11.109.3.80 SetMeasurementMode() virtual void SetMeasurementMode ( unsigned int channel ) [virtual]
```

Sets a channel to measurement mode (STG3008-FA).

Parameters

11.109.3.81 SetOutputRate() void SetOutputRate (uint32_t rate)

Change the output rate of the STG. Valid rates are from 1000 Hz to 50000 Hz.

Parameters

The new output rate in Hz.	rate
----------------------------	------

Store Download information in the STG. This function can be used to store the filename and timestamp of the last download for later query.

Parameters

timestamp	The timestamp of last download.
filename	The filename of the downlaoded waveform.

Sets the mapping between external syncout outputs and internal syncout channels.

channel	The external syncout output channel number (zero based).
syncoutMap	A bitmap of internal syncout channels to map to channel.

```
11.109.3.84 SetTriggerSource() [1/3] virtual void SetTriggerSource ( unsigned int triggernum,
```

```
DigitalSource< digitalsourceenum >^ triggersource,
int bitnum_offset ) [virtual]
```

```
11.109.3.87 SetVoltageMode() [1/2] virtual void SetVoltageMode ( ) [virtual]
```

Sets all channels to voltage mode (STG3008-FA and STG400x only).

```
11.109.3.88 SetVoltageMode() [2/2] virtual void SetVoltageMode ( unsigned int channel ) [virtual]
```

Sets a channel to voltage mode (STG3008-FA and STG400x only).

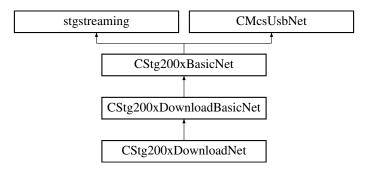
Parameters

channel	The channel to change.

11.110 CStg200xDownloadBasicNet Class Reference

CStg200xDownloadBasicNet is the base class to control the download mode of the MCS STG device.

Inheritance diagram for CStg200xDownloadBasicNet:



Public Member Functions

virtual void SetupTrigger (uint32_t first_trigger, array< uint32_t >^ channelmap, array< uint32_t >^ syncoutmap, array< uint32_t >^ repeat)

Configures the trigger settings for the STG. Note that all memory segments have their own trigger setting.

- virtual void SetupTriggerSingle (uint32_t trigger, uint32_t channelmap, uint32_t syncoutmap, uint32_t repeat)
 - Configures the trigger settings for the STG. Note that all memory segments have their own trigger setting.
- void GetTrigger ([Out] array< uint32_t >^% channelmap, [Out] array< uint32_t >^% syncoutmap, [Out] array< uint32_t >^% repeat)

Queries the trigger settings for the STG. Note that all memory segments have their own trigger setting.

void GetSweepCount ([Out] array< uint32 t >^% sweeps, [Out] array< uint32 t >^% triggers)

Get the sweep and trigger count of the STG.

- The triggercount tells how many times each trigger was active and is reset to zero on download of new channel data.
- The sweepcount tells how many times each trigger was already repeated. This count is set to zero on trigger and counts up to repeat in CStq200xDownloadBasicNet::SetupTrigger.
- void ForceStatusEvent ()

Force a status event.

void ResetStatus (uint32_t triggermap)

Reset the status flag.

• uint32 t GetMemoryUsageDAC (uint32 t Channel)

Queries the memory usage of the current segment and selected analog DAC channel.

uint32_t GetMemoryUsageSyncout (uint32_t Channel)

Queries the memory usage of the current segment and selected syncout channel.

virtual void ClearSyncData (uint32_t channel)

Delete a SyncOut pattern for a channel from STG memory.

virtual void SendSyncData (uint32_t channel, array< uint16_t >^ pData, array< uint64_t >^ tData)

Uploads sync output data to the STG.

Sends sync output data to a given channel on the STG. The list of datapoints will be sent to the selected sync output channel. Sync output data previously sent to the channel is overwritten.

Each datapoint is represented by an integer value and can be either 0 or 1.

The duration is given as a list of 64 bit integers. Durations are given in units of μs. The STG has a resolution of 20 μs. If your application can not handle 64 bit integers, use the STG200x_SendSyncData32() call instead.

virtual void ClearChannelData (uint32_t channel)

Delete a stimulus pattern for a channel from STG memory

virtual void SendChannelData (uint32_t channel, array< uint16_t >^ pData, array< uint64_t >^ tData)

Uploads analog data (stimulus patterns) to the STG.

Sends datapoints to a given channel on the STG. The list of datapoints will be sent to the selected channel. Data previously sent to the channel is overwritten.

Each datapoint is represented by an integer value in the range from 0 to 4095 (bit 0 to 11), its sign is taken from bit 12, 0 is for positive amplitude, and 1 for negative amplitude Bits 13 to 15 have to be zero.

The duration is given as a list of 64 bit integers. Durations are given in units of µs. The STG has a resolution of 20 µs.

virtual void EnableAutoReset ()

Enable AutoReset of the STG Status.

• virtual void DisableAutoReset ()

Disable AutoReset of the STG Status.

virtual void SetupRetriggerMode (int8_t trigger, RetriggerActionEnumNet same_trigger, RetriggerActionEnumNet other_trigger)

Define the action on triggers while the STG is running.

The STG has three options how to handle a successive trigger while a trigger is active.

- stop this trigger (default action)
- restart this trigger
- ignore the signal
- virtual void SetupRetriggerMode (RetriggerActionEnumNet same_trigger, RetriggerActionEnumNet other_
 trigger)

Define the action on triggers while the STG is running.

The STG has three options how to handle a successive trigger while a trigger is active.

- stop this trigger (default action)
- restart this trigger
- ignore the signal

Properties

• CStimulusFunctionNet[^] Stimulus [get]

Additional Inherited Members

11.110.1 Detailed Description

CStg200xDownloadBasicNet is the base class to control the download mode of the MCS STG device.

11.110.2 Member Function Documentation

```
11.110.2.1 ClearChannelData() virtual void ClearChannelData ( uint32_t channel) [virtual]
```

Delete a stimulus pattern for a channel from STG memory

Parameters

channel	Specifies the channel to clear.
---------	---------------------------------

```
11.110.2.2 ClearSyncData() virtual void ClearSyncData ( uint32_t channel ) [virtual]
```

Delete a SyncOut pattern for a channel from STG memory.

Parameters

channel Specifies the syncout channel to clear.

11.110.2.3 DisableAutoReset() virtual void DisableAutoReset () [virtual]

Disable AutoReset of the STG Status.

If autoreset is disabled, the STG status switches to FINISHED after the defined number of sweeps is finished. To switch back to the IDLE status, use CStg200xDownload::ResetStatus()

```
11.110.2.4 EnableAutoReset() virtual void EnableAutoReset ( ) [virtual]
```

Enable AutoReset of the STG Status.

This is the default on power up. If autoreset is enabled, the STG status switches to FINISHED only for one poll cycle after this, it switches to IDLE automatically.

```
11.110.2.5 ForceStatusEvent() void ForceStatusEvent ( )
```

Force a status event.

Force the DLL to create a PollMessage event and to call the pPollCallback function, even if no new status information is available.

```
11.110.2.6 GetMemoryUsageDAC() uint32_t GetMemoryUsageDAC ( uint32_t Channel)
```

Queries the memory usage of the current segment and selected analog DAC channel.

The currently used memory is reported for the requested channel.

Parameters

Channel	channel for the amount of interested usage.
---------	---

Returns

Returns the usage in STG memory.

```
11.110.2.7 GetMemoryUsageSyncout() uint32_t GetMemoryUsageSyncout ( uint32_t Channel)
```

Queries the memory usage of the current segment and selected syncout channel.

The currently used memory is reported for the requested channel.

Channel channel for the amount of interested usage.

Returns

Returns the usage in STG memory.

```
11.110.2.8 GetSweepCount() void GetSweepCount (

[Out] array< uint32_t >^% sweeps,

[Out] array< uint32_t >^% triggers )
```

Get the sweep and trigger count of the STG.

- The triggercount tells how many times each trigger was active and is reset to zero on download of new channel data.
- The sweepcount tells how many times each trigger was already repeated. This count is set to zero on trigger and counts up to repeat in CStg200xDownloadBasicNet::SetupTrigger.

Parameters

sweeps	on return contains the number of sweeps for each trigger.
triggers	on return contains the number of trigger events seen for each trigger.

```
11.110.2.9 GetTrigger() void GetTrigger (

[Out] array< uint32_t >^% channelmap,

[Out] array< uint32_t >^% syncoutmap,

[Out] array< uint32_t >^% repeat )
```

Queries the trigger settings for the STG. Note that all memory segments have their own trigger setting.

Parameters

```
channelmap For each trigger, a bitmap of channels that belong to this trigger.
```

syncoutmap	For each trigger, a bitmap of syncouts that belong to this trigger.
repeat	For each trigger, define the number of times this trigger should be repeated.

```
11.110.2.10 ResetStatus() void ResetStatus ( uint32_t triggermap )
```

Reset the status flag.

Parameters

which to reset the status.	triggermap bitmap of trigger
----------------------------	------------------------------

Uploads analog data (stimulus patterns) to the STG.

Sends datapoints to a given channel on the STG. The list of datapoints will be sent to the selected channel. Data previously sent to the channel is overwritten.

Each datapoint is represented by an integer value in the range from 0 to 4095 (bit 0 to 11), its sign is taken from bit 12, 0 is for positive amplitude, and 1 for negative amplitude Bits 13 to 15 have to be zero.

The duration is given as a list of 64 bit integers. Durations are given in units of μ s. The STG has a resolution of 20 μ s.

Parameters

channel	Specifies the channel to append the data to.
pData	A list of datapoints.
tData	A list of durations as int64_t. The time is given in units of μs.

Uploads sync output data to the STG.

Sends sync output data to a given channel on the STG. The list of datapoints will be sent to the selected sync output channel. Sync output data previously sent to the channel is overwritten.

Each datapoint is represented by an integer value and can be either 0 or 1.

The duration is given as a list of 64 bit integers. Durations are given in units of μ s. The STG has a resolution of 20 μ s. If your application can not handle 64 bit integers, use the STG200x_SendSyncData32() call instead.

channel	Specifies the sync output channel to append the data to.
pData	A list of datapoints.
tData	A list of durations as int64_t. The time is given in units of μs.

Define the action on triggers while the STG is running.

The STG has three options how to handle a successive trigger while a trigger is active.

- stop this trigger (default action)
- · restart this trigger
- · ignore the signal

Parameters

trigger	The trigger to change.
same_trigger	Action for successive triggers in Normal Mode, and for triggers to the currently selected segment in Multi - File Mode.
other_trigger	Action for successive triggers in Multi-File Mode for a trigger on a segment not currently selected.Not used in Normal Mode.

```
11.110.2.14 SetupRetriggerMode() [2/2] virtual void SetupRetriggerMode (
RetriggerActionEnumNet same_trigger,
RetriggerActionEnumNet other_trigger) [virtual]
```

Define the action on triggers while the STG is running.

The STG has three options how to handle a successive trigger while a trigger is active.

- stop this trigger (default action)
- · restart this trigger
- · ignore the signal

Parameters

same_trigger	Action for successive triggers in Normal Mode, and for triggers to the currently selected segment in Multi - File Mode.
other_trigger	Action for successive triggers in Multi-File Mode for a trigger on a segment not currently selected.Not used in Normal Mode.

11.110.2.15 SetupTrigger() virtual void SetupTrigger (

```
uint32_t first_trigger,
array< uint32_t >^ channelmap,
array< uint32_t >^ syncoutmap,
array< uint32_t >^ repeat ) [virtual]
```

Configures the trigger settings for the STG. Note that all memory segments have their own trigger setting.

Parameters

ange.	The number of the first trigger to cha	first_trigger	
-------	--	---------------	--

Parameters

channelmap	For each trigger, a bitmap of channels that belong to this trigger.
------------	---

Parameters

syncoutmap	For each trigger, a bitmap of syncouts that belong to this trigger.
repeat	For each trigger, define the number of times this trigger should be repeated.

Configures the trigger settings for the STG. Note that all memory segments have their own trigger setting.

Parameters

	T1 1 1 1 1
triaaer	The trigger to change.
133	

channelmap	A bitmap of channels that belong to this trigger.

Parameters

syncoutmap	A bitmap of syncouts that belong to this trigger.
repeat	The number of times this trigger should be repeated.

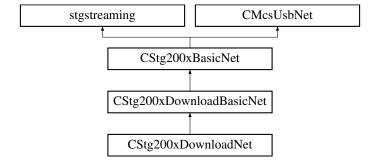
11.110.3 Property Documentation

11.110.3.1 Stimulus CStimulusFunctionNet^ Stimulus [get]

11.111 CStg200xDownloadNet Class Reference

Main class for the STG download mode This class implements the STG download mode interface.

Inheritance diagram for CStg200xDownloadNet:



Public Member Functions

CStg200xDownloadNet ()

Use this constructor if you do not want to use the status callback.

CStg200xDownloadNet (OnStgPollStatus[^] pollStatus)

Use this constructor if you want to use the status callback.

- ∼CStg200xDownloadNet ()
- void PrepareAndSendData (uint32_t channel, array< int32_t >^ amplitude, array< uint64_t >^ duration, STG_DestinationEnumNet destType)

Prepare and send data to a given channel on the STG. Previous data sent to that channel is erased first.

 void PrepareAndAppendData (uint32_t channel, array< int32_t >^ amplitude, array< uint64_t >^ duration, STG_DestinationEnumNet destType)

Prepare and append data to a given channel on the STG.

void ClearChannel_PrepareAndSendData (uint32_t channel, array< int32_t >^ amplitude, array< uint64_t >^ duration, STG DestinationEnumNet destType, bool doClear)

Prepare and append data to a given channel on the STG.

void SendSegmentDefine (array< uint32_t >^ segment_list)

Defines the segment memory layout of the STG.

 void SendSegmentStart (uint32_t triggermap, uint32_t segment, Stg200xSegmentFlagsEnumNet segmentflags)

Switchs segment and starts trigger.

- void SendSegmentSelect (uint32_t segment, Stg200xSegmentFlagsEnumNet segmentflags)
 Switchs segment.
- void EnableMultiFileMode (uint32_t submode)

Enable the Multi-File mode of the STG.

· void DisableMultiFileMode ()

Disable the Multi-File mode of the STG

- StgStatusNet ^ QueryTriggerstatus ()
- void SetOutputMap (array< uint32_t >^ ChannelLayout)
- int32_t GetModuleTemp (unsigned int channel)
- uint32_t GetModuleCurrent (unsigned int channel)

Events

- OnStgPollStatus^ Stg200xPollStatusEvent [add, remove, raise]
- OnMwPollStatus^ MwPollStatusEvent [add, remove, raise]

Additional Inherited Members

11.111.1 Detailed Description

Main class for the STG download mode This class implements the STG download mode interface.

11.111.2 Constructor & Destructor Documentation

```
11.111.2.1 CStg200xDownloadNet() [1/2] CStg200xDownloadNet ( )
```

Use this constructor if you do not want to use the status callback.

```
11.111.2.2 CStg200xDownloadNet() [2/2] CStg200xDownloadNet (
OnStgPollStatus )
```

Use this constructor if you want to use the status callback.

11.111.2.3 ~CStg200xDownloadNet() ~CStg200xDownloadNet ()

11.111.3 Member Function Documentation

Prepare and append data to a given channel on the STG.

Each datapoint is represented by an signed 32bit integer value. When using voltage stimulation, the values are in multiple of 1 uV, thus the possible range is += 2000 V. When using current stimulation, the values are in multiple of 1 nA, this the possible range is += 2000 mA.

The duration is given as a list of 64 bit integers. Durations are given in units of μ s. The STG has a resolution of 20 μ s.

Blocks of data which should repeat can be defined by prepending such a block with an entry in the arrays where both amplitude and duration is zero. The end of such an block is marked by an entry where the duration is set to zero and the amplitude beeing set to the number of times the block should run. Blocks can be nested.

Parameters

annel number to send da	channel number to send data to.	The channel	channel
-------------------------	---------------------------------	-------------	---------

Parameters

	amplitude	A list of amplitudes in units of μV and nA in voltage and current mode, respectively.	1
--	-----------	--	---

Parameters

duration	A list of durations in units of μs.
destType	specifies wheather the data is for syncout, current or voltage stimulation.

11.111.3.2 DisableMultiFileMode() void DisableMultiFileMode ()

Disable the Multi-File mode of the STG

Switch the STG back to normal mode. In this mode, trigger inputs are assigned to channels, not to segments.

```
11.111.3.3 EnableMultiFileMode() void EnableMultiFileMode ( uint32_t submode )
```

Enable the Multi-File mode of the STG.

In Multi-File mode, the trigger inputs switch between segments. To use this mode, define up to as many segments as trigger inputs are available and fill each segment with a stimulus pattern.

Now a trigger on trigger input 1 switches the STG to the first segment and starts all triggers in this segment. Likewise, a trigger on trigger input 2, 3 and 4 selects the respective segment and start all triggers in this segment So the Multi-File Mode can be used to predefine up to four different stimuli which can be selected without the need for a computer connection.

Parameters

submode

The submode. Submode 0 is regular Multi-File mode as described above, submode 1 is extended Multi-File mode, where the segment is selected based on the digital pattern on the digital inputs. In this mode, 256 different segments can be defined and used.

```
11.111.3.6 PrepareAndAppendData() void PrepareAndAppendData ( uint32_t channel,
```

```
uint32_t channel,
array< int32_t >^ amplitude,
array< uint64_t >^ duration,
STG_DestinationEnumNet destType )
```

Prepare and append data to a given channel on the STG.

Each datapoint is represented by an signed 32bit integer value. When using voltage stimulation, the values are in multiple of 1 uV, thus the possible range is += 2000 V. When using current stimulation, the values are in multiple of 1 nA, this the possible range is += 2000 mA.

The duration is given as a list of 64 bit integers. Durations are given in units of μ s. The STG has a resolution of 20 μ s.

Blocks of data which should repeat can be defined by prepending such a block with an entry in the arrays where both amplitude and duration is zero. The end of such an block is marked by an entry where the duration is set to zero and the amplitude beeing set to the number of times the block should run. Blocks can be nested.

Parameters

channel	The channel number to send data to.
---------	-------------------------------------

Parameters

A list of amplitudes in units of μV and nA in voltage and current mode, respectively.
--

Parameters

duration	A list of durations in units of μs.
destType	specifies wheather the data is for syncout, current or voltage stimulation.

11.111.3.7 PrepareAndSendData() void PrepareAndSendData (uint32_t channel,

```
array< int32_t >^ amplitude,
array< uint64_t >^ duration,
STG_DestinationEnumNet destType )
```

Prepare and send data to a given channel on the STG. Previous data sent to that channel is erased first.

Each datapoint is represented by an signed 32bit integer value. When using voltage stimulation, the values are in multiple of 1 uV, thus the possible range is += 2000 V. When using current stimulation, the values are in multiple of 1 nA, this the possible range is += 2000 mA.

The duration is given as a list of 64 bit integers. Durations are given in units of μ s. The STG has a resolution of 20 μ s.

Blocks of data which should repeat can be defined by prepending such a block with an entry in the arrays where both amplitude and duration is zero. The end of such an block is marked by an entry where the duration is set to zero and the amplitude beeing set to the number of times the block should run. Blocks can be nested.

Parameters

channel	The channel number to send data to.
---------	-------------------------------------

amplitude	A list of amplitudes in units of μV and nA in voltage and current mode, respectively.
-----------	--

Parameters

duration	A list of durations in units of μs .
destType	specifies wheather the data is for syncout, current or voltage stimulation.

11.111.3.8 QueryTriggerstatus() StgStatusNet ^ QueryTriggerstatus ()

```
11.111.3.9 SendSegmentDefine() void SendSegmentDefine ( array < uint32_t >^{\land} segment\_list )
```

Defines the segment memory layout of the STG.

On reset, the STG has one segment containing all available memory.

With this command, the STG memory can be devided into several segments. Each segment can be filled with stimulus data.

Parameters

segment_list	The List of memory sizes (one per segment).
--------------	---

Switchs segment.

Parameters

segment	The number of the segment to select.

seamentflags	A bitmap of flags, bit 1: assign all channels to the trigger number equal to the segment.

Switchs segment and starts trigger.

Parameters

	triggermap	A bitmap of triggers that will be started.
--	------------	--

Parameters

Parameters

segmentflags A bitmap of flags, bit 1: assign all channels to the trigger number equal to the segment.

```
11.111.3.12 SetOutputMap() void SetOutputMap (

array< uint32_t >^ ChannelLayout )
```

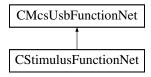
11.111.4 Event Documentation

```
11.111.4.1 MwPollStatusEvent OnMwPollStatus^ MwPollStatusEvent [add], [remove], [raise]
```

```
11.111.4.2 Stg200xPollStatusEvent OnStgPollStatus^ Stg200xPollStatusEvent [add], [remove], [raise]
```

11.112 CStimulusFunctionNet Class Reference

Inheritance diagram for CStimulusFunctionNet:



Classes

- · class SidebandData
- class StimulusDeviceDataAndUnrolledData

Public Member Functions

- CStimulusFunctionNet (CMcsUsbNet[∧] mcsusb, CMcsUsbFunctionPointerContainer[∧] stimulusFunction
 —
 PointerContainer)
- CStimulusFunctionNet (CMcsUsbNet[^] mcsusb)
- void StartPoll ()

Starts the interrupt fetching thread and delivers events

void StopPoll ()

Stops the interrupt fetching thread and delivers events

void ForceStatusEvent ()

Force a status event. Force the DLL to create a PollMessage event and to call the pPollCallback function, even if no new status information is available.

void SendStart (uint32_t triggermap)

Start (Trigger) the STG. The startup delay is in the range of a few ms.

void SendStop (uint32 t triggermap)

Stop some or all triggers of the STG.

• void SendStop (uint32_t triggermap, int options)

Stop some or all triggers of the STG.

void ClearChannelData (int channel)

Delete a Stimulus Pattern from STG memory

void ClearSyncData (int channel)

Delete a Syncout Pattern from STG memory

• void PrepareAndSendData (uint32_t channel, array< int32_t $>^{\land}$ amplitude, array< uint64_t $>^{\land}$ duration, STG_DestinationEnumNet destType)

Prepare and send data to a given channel on the STG. Previous data sent to that channel is erased first.

 void PrepareAndAppendData (uint32_t channel, array< int32_t >^ amplitude, array< uint64_t >^ duration, STG_DestinationEnumNet destType)

Prepare and append data to a given channel on the STG.

- void ClearChannel_PrepareAndSendData (uint32_t channel, array< int32_t >^ amplitude, array< uint64_t >^ duration, STG_DestinationEnumNet destType, bool doClear)
- StimulusDeviceDataAndUnrolledData ^ PrepareData (int channel, array< int32_t >^ amplitude, array< uint64_t >^ duration, STG_DestinationEnumNet destType)
- void SendPreparedData (int channel, StimulusDeviceDataAndUnrolledData[^] device_data_and_unrolled, STG DestinationEnumNet destType)
- SidebandData $^{\wedge}$ CreateSideband (array< int32_t > $^{\wedge}$ StimulusActive, array< int32_t > $^{\wedge}$ Syncout, array< uint64_t > $^{\wedge}$ Duration, uint32_t Bit0Time, uint32_t Bit3Time, uint32_t Bit4Time)

Creates the Sideband Channel for the MEA2100 device.

void ClearMultiplexedData ()

Clears the Stimulation Memory in the STG device.

void SendMultiplexedData (array< uint16 t >^ data)

Sends stimulus data in multiplexed form. All 16 bits words for the enabled DAC and digital channels are muxed together per time slice.

int GetMultiplexedDataChannelsInBlock ()

Gets the number of stimulus data channels to send per time slice. Might be greater than the number of configured channels. Fill unused channels with dummy data in SendMultiplexedData

• int GetDACResolution ()

Gets number of bits of the DAC resolution.

int GetVoltageRangeInMicroVolt (uint32_t channel)

Gets the Voltage Range of the specified channel in Microvolts.

int GetVoltageResolutionInMicroVolt (uint32 t channel)

Gets the Voltage Resolution of the specified channel in Microvolts.

int GetCurrentRangeInNanoAmp (uint32_t channel)

Gets the Current Range of the specified channel in Nanoamps.

• int GetCurrentResolutionInNanoAmp (uint32 t channel)

Gets the Current Resolution of the specified channel in Nanoamps.

void SetupTrigger (uint32_t first_trigger, array< uint32_t >^ channelmap, array< uint32_t >^ syncoutmap, array< uint32_t >^ repeat)

Configures the trigger settings for the STG. Note that all memory segments have their own trigger setting.

void SetupTriggerSingle (uint32_t trigger, uint32_t channelmap, uint32_t syncoutmap, uint32_t repeat)

Configures the trigger settings for the STG. Note that all memory segments have their own trigger setting.

uint32 t GetTotalMemory ()

Get the total amount of memory available on the STG (all segments).

uint32_t GetAvailableMemory ()

Get the amount of memory available in the currently selected segment of the STG.

• int GetNumberOfAnalogChannels ()

Get the number of STG channels.

Events

• OnStgPollStatus^ PollStatusEvent

Additional Inherited Members

11.112.1 Constructor & Destructor Documentation

```
11.112.1.1 CStimulusFunctionNet() [1/2] CStimulusFunctionNet (

CMcsUsbNet^ mcsusb,

CMcsUsbFunctionPointerContainer^ stimulusFunctionPointerContainer)
```

```
11.112.1.2 CStimulusFunctionNet() [2/2] CStimulusFunctionNet (

CMcsUsbNet^ mcsusb )
```

11.112.2 Member Function Documentation

Delete a Stimulus Pattern from STG memory

Parameters

channel specifies the channel to clear.

11.112.2.3 ClearMultiplexedData() void ClearMultiplexedData ()

Clears the Stimulation Memory in the STG device.

```
11.112.2.4 ClearSyncData() void ClearSyncData ( int channel )
```

Delete a Syncout Pattern from STG memory

Parameters

channel | specifies the channel to clear.

Creates the Sideband Channel for the MEA2100 device.

Each datapoint is represented by an signed 32bit integer value. A value 0 means that the stimulation is active during that time. A value 1 means that the stimulation is not active during that time.

The duration is given as a list of 64 bit integers. Durations are given in units of μ s. The STG has a resolution of 20 μ s.

Parameters

StimulusActive	A list of datapoints which define weather the Stimulus is active or idle at that time as int32.
----------------	---

Parameters

Duration	A list of durations as uint64. The time is given in units of μ s.	
Bit0Time	Time in µs for which Bit 0 (Blanking) is to be extended.	

Parameters

Bit3Time	Time in µs for which Bit 3 (Stimulus Enable) is to be extended.
----------	---

Parameters

Bit4Time Time in μs for which Bit 4 (Stimulus Selector) is to be ext
--

Returns

Error Status. 0 on success.

11.112.2.6 ForceStatusEvent() void ForceStatusEvent ()

Force a status event. Force the DLL to create a PollMessage event and to call the pPollCallback function, even if no new status information is available.

11.112.2.7 GetAvailableMemory() uint32_t GetAvailableMemory ()

Get the amount of memory available in the currently selected segment of the STG.

Returns

The total memory available on the STG in bytes.

Gets the Current Range of the specified channel in Nanoamps.

Parameters

channel	Channel which is queried.
---------	---------------------------

Returns

The Current Range of the specified channel in Nanoamps.

Gets the Current Resolution of the specified channel in Nanoamps.

Parameters

channel Channel which is queried.

Returns

The Current Resolution of the specified channel in Nanoamps.

11.112.2.10 GetDACResolution() int GetDACResolution ()

Gets number of bits of the DAC resolution.

Returns

The DAC resolution in bits.

11.112.2.11 GetMultiplexedDataChannelsInBlock() int GetMultiplexedDataChannelsInBlock ()

Gets the number of stimulus data channels to send per time slice. Might be greater than the number of configured channels. Fill unused channels with dummy data in SendMultiplexedData

11.112.2.12 GetNumberOfAnalogChannels() int GetNumberOfAnalogChannels ()

Get the number of STG channels.

Returns

The number of STG channels.

11.112.2.13 GetTotalMemory() uint32_t GetTotalMemory ()

Get the total amount of memory available on the STG (all segments).

Returns

The total memory available on the STG in bytes.

11.112.2.14 GetVoltageRangeInMicroVolt() int GetVoltageRangeInMicroVolt (uint32_t channel)

Gets the Voltage Range of the specified channel in Microvolts.

Parameters

channel Channel	which is queried.
-----------------	-------------------

Returns

The Voltage Range of the specified channel in Microvolts.

11.112.2.15 GetVoltageResolutionInMicroVolt() int GetVoltageResolutionInMicroVolt (uint32_t channel)

Gets the Voltage Resolution of the specified channel in Microvolts.

channel	Channel which is queried.
---------	---------------------------

Returns

The Voltage Resolution of the specified channel in Microvolts.

11.112.2.16 PrepareAndAppendData() void PrepareAndAppendData (

```
uint32_t channel,
array< int32_t >^ amplitude,
array< uint64_t >^ duration,
STG_DestinationEnumNet destType )
```

Prepare and append data to a given channel on the STG.

Each datapoint is represented by an signed 32bit integer value. When using voltage stimulation, the values are in multiple of 1 uV, thus the possible range is += 2000 V. When using current stimulation, the values are in multiple of 1 nA, this the possible range is += 2000 mA.

The duration is given as a list of 64 bit integers. Durations are given in units of μ s. The STG has a resolution of 20 μ s.

Blocks of data which should repeat can be defined by prepending such a block with an entry in the arrays where both amplitude and duration is zero. The end of such an block is marked by an entry where the duration is set to zero and the amplitude beeing set to the number of times the block should run. Blocks can be nested.

Parameters

channel	The channel number to send data to.
---------	-------------------------------------

Parameters

amplitude	A list of amplitudes in units of μV and nA in voltage and current mode, respectively.
-----------	--

Parameters

duration	A list of durations in units of μs.
destType	specifies wheather the data is for syncout, current or voltage stimulation.

Returns

Error Status. 0 on success.

Prepare and send data to a given channel on the STG. Previous data sent to that channel is erased first.

Each datapoint is represented by an signed 32bit integer value. When using voltage stimulation, the values are in multiple of 1 uV, thus the possible range is += 2000 V. When using current stimulation, the values are in multiple of 1 nA, this the possible range is += 2000 mA.

The duration is given as a list of 64 bit integers. Durations are given in units of μ s. The STG has a resolution of 20 μ s.

Blocks of data which should repeat can be defined by prepending such a block with an entry in the arrays where both amplitude and duration is zero. The end of such an block is marked by an entry where the duration is set to zero and the amplitude beeing set to the number of times the block should run. Blocks can be nested.

Parameters

The channel number to send data	a to.
---------------------------------	-------

Parameters

amplitude	A list of amplitudes in units of μV and nA in voltage and current mode, respectively.
-----------	--

Parameters

duration	A list of durations in units of μs.
destType	specifies wheather the data is for syncout, current or voltage stimulation.

Returns

Error Status. 0 on success.

```
11.112.2.18 PrepareData() StimulusDeviceDataAndUnrolledData ^ PrepareData (
    int channel,
    array< int32_t >^ amplitude,
    array< uint64_t >^ duration,
    STG_DestinationEnumNet destType )
```

```
11.112.2.19 SendMultiplexedData() void SendMultiplexedData ( array < uint16_t >^{\wedge} data )
```

Sends stimulus data in multiplexed form. All 16 bits words for the enabled DAC and digital channels are muxed together per time slice.

Parameters

data Array of data to be sent.

```
11.112.2.20 SendPreparedData() void SendPreparedData (
    int channel,
```

```
Stimulus Device Data And Unrolled Data ^ device\_data\_and\_unrolled, \\ STG\_Destination Enum Net dest Type )
```

```
11.112.2.21 SendStart() void SendStart ( uint32_t triggermap )
```

Start (Trigger) the STG. The startup delay is in the range of a few ms.

Parameters

triggermap A bitmap of triggers which will be started.

```
11.112.2.22 SendStop() [1/2] void SendStop ( uint32_t triggermap )
```

Stop some or all triggers of the STG.

Parameters

triggermap	A bitmap of triggers which will be stopped.

```
11.112.2.23 SendStop() [2/2] void SendStop ( uint32_t triggermap, int options )
```

Stop some or all triggers of the STG.

Parameters

triggermap	A bitmap of triggers which will be stopped.
options	bitmap of options, currently only STOP_OPTION_SAVESTOP (0x80) is defined, which bypasses
	the stop commands when a syncout assossiated with a given sync-out has bit 1 (0x02) set. Can
	be used e.g. to prevent a stop while a biphasic stimulation pulse is active

Configures the trigger settings for the STG. Note that all memory segments have their own trigger setting.

Parameters

first_trigger	The number of the first trigger to change.
---------------	--

Parameters

channelman	For each trigger, a bitmap of channels that belong to this trigger.
0	i or odor anggor, a standportonarmore and solong to and anggor

Parameters

syncoutmap	For each trigger, a bitmap of syncouts that belong to this trigger.
repeat	For each trigger, define the number of times this trigger should be repeated.

Configures the trigger settings for the STG. Note that all memory segments have their own trigger setting.	

trigger	The trigger to change.
---------	------------------------

Parameters

channelmap A bitmap of channels that belong to this trigger.
--

Parameters

syncoutmap	A bitmap of syncouts that belong to this trigger.
repeat	The number of times this trigger should be repeated.

11.112.2.26 StartPoll() void StartPoll ()

Starts the interrupt fetching thread and delivers events

11.112.2.27 StopPoll() void StopPoll ()

Stops the interrupt fetching thread and delivers events

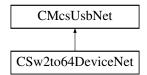
11.112.3 Event Documentation

$\textbf{11.112.3.1} \quad \textbf{PollStatusEvent} \quad \texttt{OnStgPollStatus} \land \ \texttt{PollStatusEvent}$

11.113 CSw2to64DeviceNet Class Reference

The class to control the MCS-USB-Sw2to64 device.

Inheritance diagram for CSw2to64DeviceNet:



Public Member Functions

- CSw2to64DeviceNet ()
- ∼CSw2to64DeviceNet ()
- unsigned short GetNumber ()

Gets the number of channels that can be switched in this box.

array< unsigned char > ^ GetChannels ()

Gets the current switch positions as char array.

void SetChannels (array< unsigned char >[^] pattern)

Sets the switch positions from a char array.

• unsigned char GetChannel (unsigned short index)

Gets one current switch position.

void SetChannel (unsigned short index, unsigned char pattern)

Sets one switch position.

Additional Inherited Members

11.113.1 Detailed Description

The class to control the MCS-USB-Sw2to64 device.

This class controls the settings of the MCS-USB-Sw2to64. The box has two inputs for signals. Each of the 64 outputs can be connected to one of the input signals, could be held open or connected ground. Valid switch states are 0, 1, 2 or 3 for each of the settings.

11.113.2 Constructor & Destructor Documentation

```
11.113.2.1 CSw2to64DeviceNet() CSw2to64DeviceNet ()
```

```
11.113.2.2 ~CSw2to64DeviceNet() ~CSw2to64DeviceNet ()
```

11.113.3 Member Function Documentation

Gets one current switch position.

	in	index	number of channel to read the switch position from
--	----	-------	--

Returns

switch position of desired channel

```
11.113.3.2 GetChannels() array<unsigned char> ^{\land} GetChannels ( )
```

Gets the current switch positions as char array.

Returns

array of char with the size of the number of channels, each char has the setting of a channel

```
11.113.3.3 GetNumber() unsigned short GetNumber ( )
```

Gets the number of channels that can be switched in this box.

The box can have a different number of channels it can switch. Up to now usually 64 channels are returned

```
11.113.3.4 SetChannel() void SetChannel (
    unsigned short index,
    unsigned char pattern)
```

Sets one switch position.

Parameters

in	index	number of channel to write the switch position to
in	pattern	switch position of the channel

```
11.113.3.5 SetChannels() void SetChannels (
array < unsigned char >^{\land} pattern)
```

Sets the switch positions from a char array.

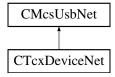
Parameters

in	pattern	array of char with the size of the number of channels, each char has the setting of a channel
	10 01110 111	array or arrain are also are arrained or arrained of a comment of a

11.114 CTcxDeviceNet Class Reference

Class to control a Temperature Controller (TCX)

Inheritance diagram for CTcxDeviceNet:



Public Member Functions

· CTcxDeviceNet ()

Initializes a new instance of CTcxDeviceNet class.

- ∼CTcxDeviceNet ()
- unsigned int GetNumControlChannels ()

Gets the number of channels the device can control/regulate.

• unsigned int GetNumMeasureChannels ()

Gets the number of channels the device can measure.

int GetValue (unsigned int channel)

Gets the temperate of the specified channel in units of 0.1 °C.

int GetValueHires (unsigned int channel)

Gets the temperate of the specified channel in units of 0.01 ℃.

int GetHeaterTemp (unsigned int channel)

Gets the temperate of the specified heater in units of 0.1 °C.

• int GetHeaterLimit (unsigned int device)

Gets the temperate limit of the specified heater in units of 0.1 $^{\circ}$ C.

double GetMaxHeaterPowerMultiwell ()

queries the max. heater power that the Multiwell temperature controller will apply; unit: W; useful range: 5.2W..7.6W

void SetMaxHeaterPowerMultiwell (double MaxPowerWatt)

sets the max. heater power that the Multiwell temperature controller will apply; unit: W; useful range: 5.2W..7.6W

bool GetHasThermocouple ()

Gets weather the device supports a thermocouple.

- bool GetEnableHeaterLimit (unsigned int device)
- bool GetEnableThermocouple (unsigned int device)
- TcxSensorTypeEnumNet GetSensorType (unsigned int device)
- String \(^\) GetUnit (unsigned int channel)
- unsigned int GetBoardTemp ()

Gets the temperate of the mainboard in units of 0.1 ℃.

- unsigned int GetVolti (unsigned int channel)
- unsigned int GetNumDevices ()
- void SetSetpoint (unsigned int channel, int sp)

Sets the target temperate of specified channel in units of 0.1 °C.

- void SetDevice (unsigned int channel, int device)
- void SetOnOff (unsigned int channel, bool on)

Switches the specified channel on or off.

- void SetCalibration (unsigned int channel, int calib)
- void SetP (unsigned int device, int p coeff)

Sets the P-coefficient of the specified device.

void SetI (unsigned int device, int i_coeff)

Sets the I-coefficient of the specified device.

void SetD (unsigned int device, int d_coeff)

Sets the D-coefficient of the specified device.

void SetMaxP (unsigned int device, int maxp)

Sets the maximum heater power of the specified device.

- void SetHeaterLimit (unsigned int device, int heater_limit)
- void SetEnableHeaterLimit (unsigned int device, bool enable)
- void SetEnableThermocouple (unsigned int device, bool enable)
- void SetSensorType (unsigned int device, TcxSensorTypeEnumNet type)
- void SetDevname (unsigned int device, String[^] Devicename)
- int GetSetpoint (unsigned int channel)

Gets the target temperate of specified channel in units of 0.1 °C.

- int GetDevice (unsigned int channel)
- int GetOnOff (unsigned int channel)

Gets if the specified channel is on or off.

- int GetCalibration (unsigned int channel)
- int GetP (unsigned int device)

Gets the P-coefficient of the specified device.

• int GetI (unsigned int device)

Gets the I-coefficient of the specified device.

int GetD (unsigned int device)

Gets the D-coefficient of the specified device.

• int GetMaxP (unsigned int device)

Gets the maximum heater power of the specified device.

- String \(^\) GetDevname (unsigned int device)
- TcxDeviceTypeEnumNet GetDeviceType ()
- int GetSetpointMin (unsigned int channel)
- int GetCalibrationMin (unsigned int channel)
- int GetPMin (unsigned int device)
- int GetIMin (unsigned int device)
- int GetDMin (unsigned int device)
- int GetMaxpMin (unsigned int device)
- int GetSetpointMax (unsigned int channel)
- int GetCalibrationMax (unsigned int channel)
- int GetPMax (unsigned int device)
- int GetIMax (unsigned int device)
- int GetDMax (unsigned int device)
- int GetMaxpMax (unsigned int device)
- int GetSetpointDecp (unsigned int channel)
- int GetCalibrationDecp (unsigned int channel)
- int GetPDecp (unsigned int device)
- int GetIDecp (unsigned int device)
- int GetDDecp (unsigned int device)
- int GetMaxpDecp (unsigned int device)
- · int GetResX (unsigned int channel)
- int GetResS (unsigned int channel)
- int GetRes1 (unsigned int channel)
- int GetRes2 (unsigned int channel)
- int GetPwrSet (unsigned int channel)
- int GetPwrOut (unsigned int channel)
- int GetDuty (unsigned int channel)

Gets the duty cycle of the heating element.

int GetUOut (unsigned int channel)

Gets the voltage on the heating element.

int GetlOut (unsigned int channel)

Gets the current through the heating element.

int GetROut (unsigned int channel)

Gets the resistance of the heating element.

int GetPOut (unsigned int channel)

Gets the output power of the heating element.

- int GetCurrent (unsigned int channel)
- int GetThermocoupleTemp (unsigned int channel)
- int GetThermocoupleTempAbs (unsigned int channel)
- int GetThermocoupleReferenceTemp (unsigned int channel)
- unsigned int GetThermocoupleNanovoltPerKelvin (unsigned int channel)

Gets the proportional constant for the thermocouple.

void SetThermocoupleNanovoltPerKelvin (unsigned int channel, unsigned int value)

Sets the proportional constant for the thermocouple.

- int GetThermocoupleCalibration (unsigned int channel)
- void CalibrateThermocouple (unsigned int channel)
- void SetDeviceType (TcxDeviceTypeEnumNet devicetype)
- void FactoryReset ()

Additional Inherited Members

11.114.1 Detailed Description

Class to control a Temperature Controller (TCX)

11.114.2 Constructor & Destructor Documentation

```
11.114.2.1 CTcxDeviceNet() CTcxDeviceNet ( )
```

Initializes a new instance of CTcxDeviceNet class.

```
11.114.2.2 ~CTcxDeviceNet() ~CTcxDeviceNet ()
```

11.114.3 Member Function Documentation

```
11.114.3.2 FactoryReset() void FactoryReset ()
11.114.3.3 GetBoardTemp() unsigned int GetBoardTemp ()
Gets the temperate of the mainboard in units of 0.1\,^{\circ}C.
11.114.3.4 GetCalibration() int GetCalibration (
             unsigned int channel )
11.114.3.5 GetCalibrationDecp() int GetCalibrationDecp (
             unsigned int channel )
11.114.3.6 GetCalibrationMax() int GetCalibrationMax (
             unsigned int channel )
11.114.3.7 GetCalibrationMin() int GetCalibrationMin (
             unsigned int channel )
11.114.3.8 GetCurrent() int GetCurrent (
             unsigned int channel )
11.114.3.9 GetD() int GetD (
             unsigned int device )
Gets the D-coefficient of the specified device.
11.114.3.10 GetDDecp() int GetDDecp (
             unsigned int device )
```

```
11.114.3.11 GetDevice() int GetDevice (
             unsigned int channel )
11.114.3.12 GetDeviceType() TcxDeviceTypeEnumNet GetDeviceType ( )
11.114.3.13 GetDevname() String ^ GetDevname (
             unsigned int device )
11.114.3.14 GetDMax() int GetDMax (
             unsigned int device )
11.114.3.15 GetDMin() int GetDMin (
             unsigned int device )
11.114.3.16 GetDuty() int GetDuty (
             unsigned int channel )
Gets the duty cycle of the heating element.
Parameters
 channel The channel number.
Returns
    The duty cycle in percent, the value of 320 \ast 64 corresponds to 100 %.
11.114.3.17 GetEnableHeaterLimit() bool GetEnableHeaterLimit (
             unsigned int device )
```

11.114.3.18 GetEnableThermocouple() bool GetEnableThermocouple (

unsigned int device)

```
11.114.3.19 GetHasThermocouple() bool GetHasThermocouple ( )
```

Gets weather the device supports a thermocouple.

```
11.114.3.20 GetHeaterLimit() int GetHeaterLimit ( unsigned int device )
```

Gets the temperate limit of the specified heater in units of 0.1 °C.

```
11.114.3.21 GetHeaterTemp() int GetHeaterTemp (
unsigned int channel)
```

Gets the temperate of the specified heater in units of 0.1 °C.

```
11.114.3.22 Getl() int GetI (
unsigned int device)
```

Gets the I-coefficient of the specified device.

```
11.114.3.23 GetIDecp() int GetIDecp (
unsigned int device)
```

```
11.114.3.24 GetlMax() int GetlMax (
unsigned int device)
```

```
11.114.3.25 GetlMin() int GetIMin (
unsigned int device)
```

```
11.114.3.26 GetlOut() int GetlOut ( unsigned int channel)
```

Gets the current through the heating element.

channel The channel number.

Returns

The current in units of mA.

```
11.114.3.27 GetMaxHeaterPowerMultiwell() double GetMaxHeaterPowerMultiwell ( )
```

queries the max. heater power that the Multiwell temperature controller will apply; unit: W; useful range: 5.2W..7.6W

```
11.114.3.28 GetMaxP() int GetMaxP (
unsigned int device)
```

Gets the maximum heater power of the specified device.

```
11.114.3.29 GetMaxpDecp() int GetMaxpDecp ( unsigned int device )
```

```
11.114.3.30 GetMaxpMax() int GetMaxpMax ( unsigned int device )
```

```
11.114.3.31 GetMaxpMin() int GetMaxpMin ( unsigned int device )
```

11.114.3.32 GetNumControlChannels() unsigned int GetNumControlChannels ()

Gets the number of channels the device can control/regulate.

11.114.3.33 GetNumDevices() unsigned int GetNumDevices ()

```
11.114.3.34 GetNumMeasureChannels() unsigned int GetNumMeasureChannels ()
```

Gets the number of channels the device can measure.

```
11.114.3.35 GetOnOff() int GetOnOff (
          unsigned int channel )
```

Gets if the specified channel is on or off.

```
11.114.3.36 GetP() int GetP ( unsigned int device )
```

Gets the P-coefficient of the specified device.

```
11.114.3.37 GetPDecp() int GetPDecp (
unsigned int device)
```

```
11.114.3.38 GetPMax() int GetPMax (
unsigned int device)
```

```
11.114.3.39 GetPMin() int GetPMin (
unsigned int device)
```

```
11.114.3.40 GetPOut() int GetPOut (
unsigned int channel)
```

Gets the output power of the heating element.

Parameters

```
channel The channel number.
```

Returns

The resistance in units of mW.

```
11.114.3.41 GetPwrOut() int GetPwrOut (
             unsigned int channel )
11.114.3.42 GetPwrSet() int GetPwrSet (
             unsigned int channel )
11.114.3.43 GetRes1() int GetRes1 (
            unsigned int channel )
11.114.3.44 GetRes2() int GetRes2 (
             unsigned int channel )
11.114.3.45 GetResS() int GetResS (
             unsigned int channel )
11.114.3.46 GetResX() int GetResX (
             unsigned int channel )
11.114.3.47 GetROut() int GetROut (
            unsigned int channel )
Gets the resistance of the heating element.
Parameters
 channel The channel number.
```

Returns

The resistance in units of 0.1 Ohm.

```
11.114.3.48 GetSensorType() TcxSensorTypeEnumNet GetSensorType ( unsigned int device )
```

```
11.114.3.49 GetSetpoint() int GetSetpoint (
               unsigned int channel )
Gets the target temperate of specified channel in units of 0.1 ℃.
11.114.3.50 GetSetpointDecp() int GetSetpointDecp (
               unsigned int channel )
11.114.3.51 GetSetpointMax() int GetSetpointMax (
               unsigned int channel )
11.114.3.52 GetSetpointMin() int GetSetpointMin (
               unsigned int channel )
\textbf{11.114.3.53} \quad \textbf{GetThermocoupleCalibration()} \quad \texttt{int GetThermocoupleCalibration ()}
               unsigned int channel )
11.114.3.54 GetThermocoupleNanovoltPerKelvin() unsigned int GetThermocoupleNanovoltPerKelvin (
               unsigned int channel )
Gets the proportional constant for the thermocouple.
Parameters
 channel
            Thermocouple channel number.
Returns
     The proportional constant in Nanovolt per Kelvin.
\textbf{11.114.3.55} \quad \textbf{GetThermocoupleReferenceTemp()} \quad \texttt{int GetThermocoupleReferenceTemp} \quad \textbf{(}
               unsigned int channel )
```

```
11.114.3.56 GetThermocoupleTemp() int GetThermocoupleTemp (
               unsigned int channel )
\textbf{11.114.3.57} \quad \textbf{GetThermocoupleTempAbs()} \quad \texttt{int GetThermocoupleTempAbs} \ \ (
               unsigned int {\it channel} )
11.114.3.58 GetUnit() String ^{\wedge} GetUnit (
               unsigned int channel )
11.114.3.59 GetUOut() int GetUOut (
               unsigned int channel )
```

Gets the voltage on the heating element.

Parameters

channel The channel number.	
-----------------------------	--

Returns

The voltage in units of mV.

```
11.114.3.60 GetValue() int GetValue (
             unsigned int channel )
```

Gets the temperate of the specified channel in units of 0.1 °C.

```
11.114.3.61 GetValueHires() int GetValueHires (
             unsigned int channel )
```

Gets the temperate of the specified channel in units of 0.01 ℃.

```
11.114.3.62 GetVolti() unsigned int GetVolti (
             unsigned int channel )
```

```
11.114.3.63 SetCalibration() void SetCalibration (
             unsigned int channel,
             int calib )
11.114.3.64 SetD() void SetD (
             unsigned int device,
             int d_coeff )
Sets the D-coefficient of the specified device.
11.114.3.65 SetDevice() void SetDevice (
             unsigned int channel,
             int device )
11.114.3.66 SetDeviceType() void SetDeviceType (
             TcxDeviceTypeEnumNet devicetype )
11.114.3.67 SetDevname() void SetDevname (
             unsigned int device,
             String^ Devicename )
11.114.3.68 SetEnableHeaterLimit() void SetEnableHeaterLimit (
             unsigned int device,
             bool enable )
11.114.3.69 SetEnableThermocouple() void SetEnableThermocouple (
             unsigned int device,
             bool enable )
11.114.3.70 SetHeaterLimit() void SetHeaterLimit (
             unsigned int device,
             int heater_limit )
```

```
11.114.3.71 Setl() void SetI (
         unsigned int device,
         int i_coeff )
```

Sets the I-coefficient of the specified device.

```
11.114.3.72 SetMaxHeaterPowerMultiwell() void SetMaxHeaterPowerMultiwell (

double MaxPowerWatt )
```

sets the max. heater power that the Multiwell temperature controller will apply; unit: W; useful range: 5.2W..7.6W

```
11.114.3.73 SetMaxP() void SetMaxP (
unsigned int device,
int maxp )
```

Sets the maximum heater power of the specified device.

```
11.114.3.74 SetOnOff() void SetOnOff (
          unsigned int channel,
          bool on )
```

Switches the specified channel on or off.

Parameters

```
channel The channel number.
```

```
11.114.3.75 SetP() void SetP (
          unsigned int device,
          int p_coeff )
```

Sets the P-coefficient of the specified device.

```
11.114.3.77 SetSetpoint() void SetSetpoint (
     unsigned int channel,
     int sp )
```

Sets the target temperate of specified channel in units of 0.1 ℃.

```
11.114.3.78 SetThermocoupleNanovoltPerKelvin() void SetThermocoupleNanovoltPerKelvin (
unsigned int channel,
unsigned int value)
```

Sets the proportional constant for the thermocouple.

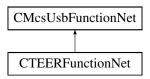
Parameters

channel	Thermocouple channel number.
value	Proportinal constant in Nanovolt per Kelvin.

11.115 CTEERFunctionNet Class Reference

CTEERFunctionNet is the class to control the TEER device

Inheritance diagram for CTEERFunctionNet:



Public Member Functions

CTEERFunctionNet (CMcsUsbNet[^] mcsusb, CMcsUsbFunctionPointerContainer[^] pTEERFunctionPointer
 — Container)

Initializes a new instance of the CTEERFunctionNet class.

- CTEERFunctionNet (CMcsUsbNet[^] mcsusb)
- virtual ∼CTEERFunctionNet ()
- !CTEERFunctionNet ()
- uint32_t GetPeriod_us ()

gets the period of TEER stimulation in us

void SetPeriod_us (uint32_t period_us)

sets the period of TEER stimulation in us

uint32_t GetAmplitude_nA ()

gets TEER stimulation amplitude in nA

void SetAmplitude_nA (uint32_t Amplitude_nA)

sets TEER stimulation amplitude in nA

• TeerWaveformEnumNet GetWaveform ()

gets TEER stimulation waveform (sine/rect)

```
    void SetWaveform (TeerWaveformEnumNet Waveform)

     sets TEER stimulation waveform (sine/rect)

    TeerClampModeEnumNet GetClampMode ()

     gets TEER clamp mode (voltage/current)

    void SetClampMode (TeerClampModeEnumNet ClampMode)

      sets TEER clamp mode (voltage/current)

    void StartSampling (uint32 t NumberOfCycles)

     starts TEER stimulation (duration: n cycles) and samples during last cycle

    void StopSampling ()

      stops TEER stimulation and sampling

    uint32 t IsSamplingFinished ()

      returns false iff stimulation/sampling is going on, otherwise true

    void SetControllerParams (uint32_t P, uint32_t I, uint32_t D)

      sets PID controller parameters for voltage clamp mode

    void GetControllerParams ([System::Runtime::InteropServices::Out]uint32 t% P, [System::Runtime::←

  InteropServices::Out]uint32_t% I, [System::Runtime::InteropServices::Out]uint32_t% D)
      gets PID controller parameters for voltage clamp mode

    array< int32_t > ^ GetSampleBufferChunk (int Buffer_Length)

      private function to query max. 100 bytes of sample buffer; called internally

    array< int32_t > ^ GetSampleVoltageBuffer_uV (int Buffer_Length)

      returns voltage sample buffer (max. 500 values); unit: uV
• uint32_t GetMaxChunkSize_Byte ()
      private function to be called internally only

    uint32_t GetBytesPerSample ()

     private function to be called internally only

    uint32_t GetNumberOfAvailableSamples ()

     private function to be called internally only

    void SetBufferIndex (uint32_t NewBufferIndex)

     pre-selects sample buffer to be tranferred by GetSampleVoltageBuffer_uV()

    uint32_t GetAdapterCode ()

     gets the adapter code

    uint32_t GetRotaryPositionCode ()

      gets the rotary position code

    void SetExternalLED (uint32_t NewState)

      sets the external LED

    void SetCurrentEnable (bool NewCurrentEnable)

      when disabled, no current will flow through chamber

    bool GetCurrentEnable ()

      when disabled, no current will flow through chamber

    int32 t GetUptimeSeconds ()

      returns time in seconds since device was powered up

    void StartInternalCalibration ()

      starts determination of internal DAC-offset; result is used internally; NON-BLOCKING call

    bool IsInternalCalibrationFinished ()

      queries whether internal calibration has finished
· int GetDacZero ()
      returns DAC-offset (result of internal calibration); use to check for plausibility only

    void CancelInternalCalibration ()

     in case the internal calibration "hangs", this will cancel it

    void SetLiquidResistance (int32 t NewLiquidResistance Ohm)

     sets the resistance of the liquid in ohms
```

```
• int32_t GetLiquidResistance ()
          gets the resitance of the liquid in ohms
    • int GetScaleFactorU1 ()
          returns U1 scale factor times 10<sup>^</sup>6 (result of internal calibration)
    • int GetScaleFactorU2 ()
          returns U2 scale factor times 10<sup>^</sup>6 (result of internal calibration)
    • int GetAdcOffsetU1 ()
          returns ADC offset of U1 channel (result of internal calibration)
    • int GetAdcOffsetU2 ()
          returns ADC offset of U2 channel (result of internal calibration)
    • int GetFrameErrorCounter ()
          returns number of times (since bootup) sample memory got overwritten

    int GetSampleRate ()

          returns sample rate in Hz
Additional Inherited Members
11.115.1 Detailed Description
CTEERFunctionNet is the class to control the TEER device
11.115.2 Constructor & Destructor Documentation
11.115.2.1 CTEERFunctionNet() [1/2] CTEERFunctionNet (
               CMcsUsbNet^ mcsusb,
               {\tt CMcsUsbFunctionPointerContainer}^{\wedge} \  \, p{\tt TEERFunctionPointerContainer} \  \, )
Initializes a new instance of the CTEERFunctionNet class.
11.115.2.2 CTEERFunctionNet() [2/2] CTEERFunctionNet (
               CMcsUsbNet^ mcsusb )
11.115.2.3 ~CTEERFunctionNet() virtual ~CTEERFunctionNet () [virtual]
11.115.2.4 "!CTEERFunctionNet() !CTEERFunctionNet ( )
```

11.115.3 Member Function Documentation

```
11.115.3.1 CancelInternalCalibration() void CancelInternalCalibration ( )
in case the internal calibration "hangs", this will cancel it
11.115.3.2 GetAdapterCode() uint32_t GetAdapterCode ( )
gets the adapter code
Returns
     the adapter code
11.115.3.3 GetAdcOffsetU1() int GetAdcOffsetU1 ( )
returns ADC offset of U1 channel (result of internal calibration)
Returns
     the ADC offset for U1
11.115.3.4 GetAdcOffsetU2() int GetAdcOffsetU2 ( )
returns ADC offset of U2 channel (result of internal calibration)
Returns
     the ADC offset for U2
11.115.3.5 GetAmplitude_nA() uint32_t GetAmplitude_nA ( )
gets TEER stimulation amplitude in nA
Returns
```

current stimulation amplitude in nA

```
11.115.3.6 GetBytesPerSample() uint32_t GetBytesPerSample ( )
```

private function to be called internally only

Returns

not documented

```
11.115.3.7 GetClampMode() TeerClampModeEnumNet GetClampMode ( )
```

gets TEER clamp mode (voltage/current)

Returns

current TEER clamp mode

11.115.3.8 GetControllerParams() void GetControllerParams ([System::Runtime::InteropServices::Out] uint32_t% P,

[System::Runtime::InteropServices::Out] uint32_t% P, [System::Runtime::InteropServices::Out] uint32_t% I, [System::Runtime::InteropServices::Out] uint32_t% D)

gets PID controller parameters for voltage clamp mode

Parameters

Р	the P value
1	the I value
D	the D value

11.115.3.9 GetCurrentEnable() bool GetCurrentEnable ()

when disabled, no current will flow through chamber

Returns

false when disabled, true when enabled

11.115.3.10 GetDacZero() int GetDacZero ()

returns DAC-offset (result of internal calibration); use to check for plausibility only

Returns

the DAC offset

```
11.115.3.11 GetFrameErrorCounter() int GetFrameErrorCounter ( )
returns number of times (since bootup) sample memory got overwritten
Returns
     the number of errors
11.115.3.12 GetLiquidResistance() int32_t GetLiquidResistance ( )
gets the resitance of the liquid in ohms
Returns
     the resistance in ohms
11.115.3.13 GetMaxChunkSize_Byte() uint32_t GetMaxChunkSize_Byte ()
private function to be called internally only
Returns
     not documented
11.115.3.14 GetNumberOfAvailableSamples() uint32_t GetNumberOfAvailableSamples ( )
private function to be called internally only
Returns
     not documented
11.115.3.15 GetPeriod_us() uint32_t GetPeriod_us ( )
gets the period of TEER stimulation in us
Returns
     the period in us
11.115.3.16 GetRotaryPositionCode() uint32_t GetRotaryPositionCode ( )
gets the rotary position code
Returns
     the rotary position code
11.115.3.17 GetSampleBufferChunk() array<int32_t> ^ GetSampleBufferChunk (
              int Buffer_Length )
private function to query max. 100 bytes of sample buffer; called internally
```

Buffer_Length	The maximal length of Buffer.
---------------	-------------------------------

Returns

not documented

11.115.3.18 GetSampleRate() int GetSampleRate ()

returns sample rate in Hz

Returns

the sample rate in Hz

11.115.3.19 GetSampleVoltageBuffer_uV() array<int32_t> $^{\land}$ GetSampleVoltageBuffer_uV (int Buffer_Length)

returns voltage sample buffer (max. 500 values); unit: uV

Parameters

uffer.
J

Returns

the voltage sample buffer

$\textbf{11.115.3.20} \quad \textbf{GetScaleFactorU1()} \quad \texttt{int GetScaleFactorU1 ()} \\$

returns U1 scale factor times $10^{\circ}6$ (result of internal calibration)

Returns

the U1 scale factor

```
11.115.3.21 GetScaleFactorU2() int GetScaleFactorU2 ( )
returns U2 scale factor times 10<sup>6</sup> (result of internal calibration)
Returns
     the U2 scale factor
11.115.3.22 GetUptimeSeconds() int32_t GetUptimeSeconds ()
returns time in seconds since device was powered up
Returns
     seconds since power-on
11.115.3.23 GetWaveform() TeerWaveformEnumNet GetWaveform ( )
gets TEER stimulation waveform (sine/rect)
Returns
     waveform enum
11.115.3.24 IsInternalCalibrationFinished() bool IsInternalCalibrationFinished ( )
queries whether internal calibration has finished
Returns
     true if calibration has finished
11.115.3.25 IsSamplingFinished() uint32_t IsSamplingFinished ( )
returns false iff stimulation/sampling is going on, otherwise true
Returns
     true if sampling is finished
11.115.3.26 SetAmplitude_nA() void SetAmplitude_nA (
              uint32_t Amplitude_nA )
```

sets TEER stimulation amplitude in nA

Amplitude nA	new stimulation amplitude in nA

11.115.3.27 SetBufferIndex() void SetBufferIndex (uint32_t NewBufferIndex)

pre-selects sample buffer to be tranferred by GetSampleVoltageBuffer_uV()

Parameters

NewBufferIndex	0 - chamber voltage; 1 - compliance voltage
	, o onamos ronago, r compilarios ronago

```
11.115.3.28 SetClampMode() void SetClampMode (

TeerClampModeEnumNet ClampMode)
```

sets TEER clamp mode (voltage/current)

Parameters

sets PID controller parameters for voltage clamp mode

Parameters

Р	the P value
1	the I value
D	the D value

```
11.115.3.30 SetCurrentEnable() void SetCurrentEnable ( bool NewCurrentEnable )
```

when disabled, no current will flow through chamber

NewCurrentEnable disabled when false, enabled when true

```
\textbf{11.115.3.31} \quad \textbf{SetExternalLED()} \quad \texttt{void SetExternalLED} \quad \textbf{(}
```

uint32_t NewState)

sets the external LED

Parameters

NewState state

11.115.3.32 SetLiquidResistance() void SetLiquidResistance (int32_t NewLiquidResistance_Ohm)

sets the resistance of the liquid in ohms

Parameters

NewLiquidResistance_Ohm the resistance in ohms

11.115.3.33 SetPeriod_us() void SetPeriod_us (uint32_t period_us)

sets the period of TEER stimulation in us

Parameters

period_us the period in us

 $\textbf{11.115.3.34} \quad \textbf{SetWaveform()} \quad \texttt{void SetWaveform ()}$

 ${\tt TeerWaveformEnumNet}\ {\tt \it Waveform}\)$

sets TEER stimulation waveform (sine/rect)

Parameters

Waveform | waveform enum

11.115.3.35 StartInternalCalibration() void StartInternalCalibration ()

starts determination of internal DAC-offset; result is used internally; NON-BLOCKING call

```
11.115.3.36 StartSampling() void StartSampling ( uint32_t NumberOfCycles )
```

starts TEER stimulation (duration: n cycles) and samples during last cycle

Parameters

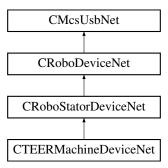
NumberOfCycles | number of cycles (sine or rect) to output (0 - loop forever)

11.115.3.37 StopSampling() void StopSampling ()

stops TEER stimulation and sampling

11.116 CTEERMachineDeviceNet Class Reference

Inheritance diagram for CTEERMachineDeviceNet:



Public Member Functions

- CTEERMachineDeviceNet ()
- ∼CTEERMachineDeviceNet ()

Properties

• CTEERFunctionNet [get]

Additional Inherited Members

11.116.1 Constructor & Destructor Documentation

```
11.116.1.1 CTEERMachineDeviceNet() CTEERMachineDeviceNet ()
```

```
11.116.1.2 ~CTEERMachineDeviceNet() ~CTEERMachineDeviceNet ()
```

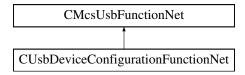
11.116.2 Property Documentation

```
11.116.2.1 TEERFunctionNet CTEERFunctionNet^ TEERFunctionNet [get]
```

11.117 CUsbDeviceConfigurationFunctionNet Class Reference

CUsbDeviceConfigurationFunctionNet is the class to configure the USB firmware

Inheritance diagram for CUsbDeviceConfigurationFunctionNet:



Public Member Functions

• CUsbDeviceConfigurationFunctionNet (CMcsUsbNet[∧] mcsusb, CMcsUsbFunctionPointerContainer[∧] p ∪ UsbDeviceConfigurationFunctionPointerContainer)

Initializes a new instance of the CUsbDeviceConfigurationFunctionNet class.

- CUsbDeviceConfigurationFunctionNet (CMcsUsbNet[^] mcsusb)
- virtual ~CUsbDeviceConfigurationFunctionNet ()
- !CUsbDeviceConfigurationFunctionNet ()
- void SetDeviceName (String^ name)

sets the USB device name for configurable devices

• void SetDeviceId (ProductIdEnumNet id)

sets the USB device name for configurable devices

Additional inferred Member	Additional	Inherited	Members
----------------------------	------------	-----------	---------

11.117.1 Detailed Description

CUsbDeviceConfigurationFunctionNet is the class to configure the USB firmware

11.117.2 Constructor & Destructor Documentation

```
11.117.2.1 CUsbDeviceConfigurationFunctionNet() [1/2] CUsbDeviceConfigurationFunctionNet (
CMcsUsbNet^ mcsusb,
CMcsUsbFunctionPointerContainer^ pUsbDeviceConfigurationFunctionPointerContainer)
```

Initializes a new instance of the CUsbDeviceConfigurationFunctionNet class.

```
11.117.2.2 CUsbDeviceConfigurationFunctionNet() [2/2] CUsbDeviceConfigurationFunctionNet (
CMcsUsbNet^ mcsusb )
```

```
\textbf{11.117.2.3} \quad \sim \textbf{CUsbDeviceConfigurationFunctionNet()} \quad \text{virtual} \quad \sim \textbf{CUsbDeviceConfigurationFunctionNet} \quad (
```

11.117.2.4 "!CUsbDeviceConfigurationFunctionNet() !CUsbDeviceConfigurationFunctionNet ()

11.117.3 Member Function Documentation

```
11.117.3.1 SetDeviceId() void SetDeviceId (
ProductIdEnumNet id)
```

sets the USB device name for configurable devices

Parameters

id

```
11.117.3.2 SetDeviceName() void SetDeviceName ( String^{\wedge} name )
```

sets the USB device name for configurable devices

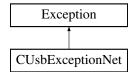
Parameters

name

11.118 CUsbExceptionNet Class Reference

Exception class that is thrown in case of an USB error.

Inheritance diagram for CUsbExceptionNet:



Public Member Functions

- CUsbExceptionNet (uint32_t status)
 Constructor of a CUsbException.
- CUsbExceptionNet (uint32_t status, String[∧] message)

Properties

• uint32_t Status [get]

11.118.1 Detailed Description

Exception class that is thrown in case of an USB error.

11.118.2 Constructor & Destructor Documentation

```
11.118.2.1 CUsbExceptionNet() [1/2] CUsbExceptionNet ( uint32_t status )
```

Constructor of a CUsbException.

status the status number

11.118.3 Property Documentation

```
11.118.3.1 Status uint32_t Status [get]
```

11.119 CMcsUsbDacqNet::CHWInfo::CVoltageRangeInfoNet Class Reference

Public Member Functions

• CVoltageRangeInfoNet (int vr, String^ vrString)

Public Attributes

- int VoltageRangeInMicroVolt
- String \(^\text{VoltageRangeDisplayStringMilliVolt}\)

11.119.1 Constructor & Destructor Documentation

```
11.119.1.1 CVoltageRangeInfoNet() CVoltageRangeInfoNet ( int vr, String^{\wedge} vrString)
```

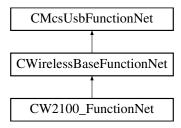
11.119.2 Member Data Documentation

11.119.2.1 VoltageRangeDisplayStringMilliVolt String ^ VoltageRangeDisplayStringMilliVolt

11.119.2.2 VoltageRangeInMicroVolt int VoltageRangeInMicroVolt

11.120 CW2100_FunctionNet Class Reference

Inheritance diagram for CW2100 FunctionNet:



Classes

· struct AudioChannelsNet

Public Member Functions

- CW2100_FunctionNet (CMcsUsbNet[^] mcsusb, CMcsUsbFunctionPointerContainer[^] w2100_Function
 — PointerContainer)
- CW2100_FunctionNet (CMcsUsbNet[^] mcsusb)
- array< HeadStageIDType[^]> [^] GetAvailableHeadstages (unsigned int max_length)
- · void SelectHeadstage (unsigned int IDorEntry, int TimeSlotNr)
- void DeselectHeadstage (int TimeSlotNr)
- void DeselectAllHeadstages ()
- HeadStageIDTypeState ^ GetSelectedHeadstageState (int TimeSlotNr)
- BatteryState ^ GetBatteryState (int TimeSlotNr)
- System::String \(^\) GetUserDefinedName (unsigned short ID)
- System::String ^ GetUserDefinedNameFromSelectedHS (int TimeSlotNr)
- System::String \(^\) GetUserDefinedNameCache (unsigned short ID)
- W2100 StimulusParametersNet ^ GetStiumlusParameters (unsigned short ID)
- W2100 StimulusParametersNet ^ GetStimulusParametersFromSelectedHS (int TimeSlotNr)
- W2100_StimulusParametersNet ^ GetStimulusParametersCache (unsigned int typeValue)
- uint32_t GetStimulusParametersCache (unsigned int typeValue, [System::Runtime::InteropServices::
 — Out]W2100_StimulusParametersNet^% StimulusParameters)
- void SetSelectedChannels (array< BYTE >^ channels, int TimeSlotNr)
- array< BYTE > $^{\land}$ GetSelectedChannels (int TimeSlotNr)
- void SetMultiHeadstageMode (bool Mode)
- bool GetMultiHeadstageMode ()
- void SetHeadstageSamplingActive (bool Active, int TimeSlotNr)
- bool GetHeadstageSamplingActive (int TimeSlotNr)
- void SetHeadstageToSleep (unsigned int Sleep16ms, int TimeSlotNr)
- void SetHeadstageOnOff (unsigned short On, int TimeSlotNr)
- unsigned short GetHeadstageOnOff (int TimeSlotNr)
- unsigned int GetAnalogOutChannel ([System::Runtime::InteropServices::Out]int % automatic, unsigned short index)
- void SetAnalogOutChannel (int automatic, unsigned short index, unsigned int Channel)

- array< unsigned int > ^ GetAnalogOutFilter ([System::Runtime::InteropServices::Out]int % automatic)
- void SetAnalogOutFilter (int automatic, array< unsigned int >^ Coeffs)
- AnalogOut DAC Range EnumNet GetDacRange ()
- void SetDacRange (AnalogOut DAC Range EnumNet range)
- CFilterPropertyNet ^ GetFilterProperty (W2100DacqGroupChannelEnumNet GroupID, unsigned int index)
- array < CFilterPropertyNet^> ^ GetFilterProperties (W2100DacqGroupChannelEnumNet GroupID)
- void SetAccelGyroEnabled (W2100_Accel_Gyro_Select_EnumNet enable, int TimeSlotNr)
- W2100 Accel Gyro Select EnumNet GetAccelGyroEnabled (int TimeSlotNr)
- void SetAccelGyroDesiredRate (int rate, int TimeSlotNr)
- int GetAccelGyroDesiredRate (int TimeSlotNr)
- int GetAccelGyroCurrentRate (int TimeSlotNr)
- void SetAccelRange (int range, int TimeSlotNr)
- int GetAccelRange (int TimeSlotNr)
- void SetGyroRange (int range, int TimeSlotNr)
- int GetGyroRange (int TimeSlotNr)
- void SetAudioChannels (array< AudioChannelsNet[^]>[^] channels)
- array< AudioChannelsNet^> ^ GetAudioChannels ()
- unsigned int GetPicFirmwareType (int TimeSlotNr)
- unsigned int GetFPGAFirmwareType (int TimeSlotNr)

Static Public Member Functions

- static void ClearUserDefinedNameCache ()
- static void ClearUserDefinedNameCache (unsigned short ID)
- static void ClearStimulusParametersCache ()
- static void ClearStimulusParametersCache (unsigned short ID)

Properties

- CW2100_StimulatorFunctionNet[^] Stimulator [get]
- CPulseGeneratorFunctionNet^ PulseGenerator [get]

Additional Inherited Members

11.120.1 Constructor & Destructor Documentation

11.120.2 Member Function Documentation

```
11.120.2.1 ClearStimulusParametersCache() [1/2] static void ClearStimulusParametersCache ( )
[static]
11.120.2.2 ClearStimulusParametersCache() [2/2] static void ClearStimulusParametersCache (
             unsigned short ID ) [static]
11.120.2.3 ClearUserDefinedNameCache() [1/2] static void ClearUserDefinedNameCache ( ) [static]
\textbf{11.120.2.4} \quad \textbf{ClearUserDefinedNameCache()} \  \  \texttt{[2/2]} \quad \text{static void ClearUserDefinedNameCache ()} \\
             unsigned short ID ) [static]
11.120.2.5 DeselectAllHeadstages() void DeselectAllHeadstages ()
11.120.2.6 DeselectHeadstage() void DeselectHeadstage (
             int TimeSlotNr )
11.120.2.7 GetAccelGyroCurrentRate() int GetAccelGyroCurrentRate (
             int TimeSlotNr )
11.120.2.8 GetAccelGyroDesiredRate() int GetAccelGyroDesiredRate (
             int TimeSlotNr )
11.120.2.9 GetAccelGyroEnabled() W2100_Accel_Gyro_Select_EnumNet GetAccelGyroEnabled (
             int TimeSlotNr )
```

```
11.120.2.10 GetAccelRange() int GetAccelRange (
             int TimeSlotNr )
11.120.2.11 GetAnalogOutChannel() unsigned int GetAnalogOutChannel (
             [System::Runtime::InteropServices::Out] int % automatic,
             unsigned short index )
11.120.2.12 GetAnalogOutFilter() array<unsigned int> ^ GetAnalogOutFilter (
             [System::Runtime::InteropServices::Out] int % automatic )
11.120.2.13 GetAudioChannels() array<AudioChannelsNet^> ^ GetAudioChannels ( )
11.120.2.14 GetAvailableHeadstages() array<HeadStageIDType^> ^ GetAvailableHeadstages (
             unsigned int max_length )
11.120.2.15 GetBatteryState() BatteryState ^{\wedge} GetBatteryState (
             int TimeSlotNr )
11.120.2.16 GetDacRange() AnalogOut_DAC_Range_EnumNet GetDacRange ( )
11.120.2.17 GetFilterProperties() array<CFilterPropertyNet^> ^ GetFilterProperties (
             W2100DacqGroupChannelEnumNet GroupID )
11.120.2.18 GetFilterProperty() CFilterPropertyNet ^ GetFilterProperty (
             W2100DacqGroupChannelEnumNet GroupID,
             unsigned int index )
11.120.2.19 GetFPGAFirmwareType() unsigned int GetFPGAFirmwareType (
             int TimeSlotNr )
```

```
11.120.2.20 GetGyroRange() int GetGyroRange (
              int TimeSlotNr )
{\bf 11.120.2.21} \quad {\bf GetHeadstageOnOff()} \quad {\tt unsigned \ short \ GetHeadstageOnOff \ (}
              int TimeSlotNr )
11.120.2.22 GetHeadstageSamplingActive() bool GetHeadstageSamplingActive (
              int TimeSlotNr )
11.120.2.23 GetMultiHeadstageMode() bool GetMultiHeadstageMode ( )
11.120.2.24 GetPicFirmwareType() unsigned int GetPicFirmwareType (
              int TimeSlotNr )
\textbf{11.120.2.25} \quad \textbf{GetSelectedChannels()} \quad \texttt{array} < \texttt{BYTE} > \; ^{\wedge} \; \texttt{GetSelectedChannels} \; \; (
              int TimeSlotNr )
11.120.2.26 GetSelectedHeadstageState() HeadStageIDTypeState ^ GetSelectedHeadstageState (
              int TimeSlotNr )
11.120.2.27 GetStimulusParametersCache() [1/2] W2100_StimulusParametersNet ^ GetStimulus↔
ParametersCache (
              unsigned int typeValue )
11.120.2.28 GetStimulusParametersCache() [2/2] uint32_t GetStimulusParametersCache (
              unsigned int typeValue,
              [System::Runtime::InteropServices::Out] W2100_StimulusParametersNet^% Stimulus↔
Parameters )
```

```
11.120.2.29 GetStimulusParametersFromSelectedHS() w2100_StimulusParametersNet ^ GetStimulus↔
ParametersFromSelectedHS (
             int TimeSlotNr )
11.120.2.30 GetStiumlusParameters() W2100_StimulusParametersNet ^ GetStiumlusParameters (
             unsigned short ID )
11.120.2.31 GetUserDefinedName() System::String ^ GetUserDefinedName (
             unsigned short ID )
11.120.2.32 GetUserDefinedNameCache() [1/2] System::String ^ GetUserDefinedNameCache (
             unsigned short ID )
11.120.2.33 GetUserDefinedNameCache() [2/2] uint32_t GetUserDefinedNameCache (
             unsigned short ID,
             [\texttt{System::Runtime::InteropServices::Out}] \ \ \texttt{System::String}^{\land} \% \ \ \textit{Name} \ )
11.120.2.34 GetUserDefinedNameFromSelectedHS() System::String ^ GetUserDefinedNameFrom←
SelectedHS (
             int TimeSlotNr )
11.120.2.35 SelectHeadstage() void SelectHeadstage (
             unsigned int IDorEntry,
             int TimeSlotNr )
11.120.2.36 SetAccelGyroDesiredRate() void SetAccelGyroDesiredRate (
             int rate,
             int TimeSlotNr )
11.120.2.37 SetAccelGyroEnabled() void SetAccelGyroEnabled (
             W2100_Accel_Gyro_Select_EnumNet enable,
             int TimeSlotNr )
```

```
11.120.2.38 SetAccelRange() void SetAccelRange (
             int range,
             int TimeSlotNr )
11.120.2.39 SetAnalogOutChannel() void SetAnalogOutChannel (
             int automatic,
             unsigned short index,
             unsigned int Channel )
11.120.2.40 SetAnalogOutFilter() void SetAnalogOutFilter (
             int automatic,
             array< unsigned int >^{\land} Coeffs )
11.120.2.41 SetAudioChannels() void SetAudioChannels (
             array< AudioChannelsNet^>^ channels )
11.120.2.42 SetDacRange() void SetDacRange (
             AnalogOut_DAC_Range_EnumNet range )
11.120.2.43 SetGyroRange() void SetGyroRange (
             int range,
             int TimeSlotNr )
11.120.2.44 SetHeadstageOnOff() void SetHeadstageOnOff (
             unsigned short On,
             int TimeSlotNr )
11.120.2.45 SetHeadstageSamplingActive() void SetHeadstageSamplingActive (
             bool Active,
             int TimeSlotNr )
```

```
11.120.2.46 SetHeadstageToSleep() void SetHeadstageToSleep (
              unsigned int Sleep16ms,
              int TimeSlotNr )
\textbf{11.120.2.47} \quad \textbf{SetMultiHeadstageMode()} \quad \texttt{void SetMultiHeadstageMode} \quad (
             bool Mode )
11.120.2.48 SetSelectedChannels() void SetSelectedChannels (
             array< BYTE >^{\wedge} channels,
             int TimeSlotNr )
11.120.3 Property Documentation
11.120.3.1 PulseGenerator CPulseGeneratorFunctionNet^ PulseGenerator [get]
11.120.3.2 Stimulator CW2100_StimulatorFunctionNet^ Stimulator [get]
11.121 CW2100_StimulatorFunctionNet Class Reference
Inheritance diagram for CW2100_StimulatorFunctionNet:
                                         CMcsUsbFunctionNet\\
```

CW2100_StimulatorFunctionNet

Public Member Functions

- CW2100_StimulatorFunctionNet (CMcsUsbNet[^] mcsusb)
- void SendStart (uint32_t triggermap)

Start (Trigger) the STG. The startup delay is in the range of a few ms.

void SendStop (uint32_t triggermap)

Stop some or all triggers of the STG.

- CStimulusFunctionNet::StimulusDeviceDataAndUnrolledData ^ PrepareData (int channel, array< int32_t > ^ amplitude, array< uint64_t > ^ duration, STG_DestinationEnumNet destType, uint32_t repeat)
- CStimulusFunctionNet::StimulusDeviceDataAndUnrolledData ^ PrepareDataSync (int channel, array< int32_t >^ amplitude, array< uint32_t >^ Sync, array< uint64_t >^ duration, STG_DestinationEnumNet destType, uint32_t repeat)
- void SendPreparedData (int channel, CStimulusFunctionNet::StimulusDeviceDataAndUnrolledData[^] device_data_and_unrolled, STG_DestinationEnumNet destType)
- void ClearChannelData (int channel)

Delete a Stimulus Pattern from STG memory

• int GetDACResolution ()

Gets number of bits of the DAC resolution.

int GetTimeResolutionInNanoSeconds ()

Gets number of bits of the DAC resolution.

int GetVoltageRangeInMicroVolt (uint32 t channel)

Gets the Voltage Range of the specified channel in Microvolts.

int GetVoltageResolutionInMicroVolt (uint32_t channel)

Gets the Voltage Resolution of the specified channel in Microvolts.

int GetCurrentRangeInNanoAmp (uint32 t channel)

Gets the Current Range of the specified channel in Nanoamps.

int GetCurrentResolutionInNanoAmp (uint32_t channel)

Gets the Current Resolution of the specified channel in Nanoamps.

- uint32 t GetNumberOfAnalogChannels ()
- uint32 t GetNumberOfSyncoutChannels ()
- uint32 t GetNumberOfTriggerInputs ()
- void SelectTimeSlot (int TimeSlotNr)
- int GetTimeSlot ()
- uint32 t GetStimulationPatternMemory ()
- uint32_t GetBoostPreTime ()
- uint32 t GetBoostAlwaysOnMode ()
- void SetDigitalStimulatorTrigger (int TimeSlotNr, DigitalStimulatorTriggerEventEnumNet trigger_event, int trigger_number, W2100DigitalSourceEnumNet digstream_source, int bitnumber_offset)
- void GetDigitalStimulatorTrigger (int TimeSlotNr, DigitalStimulatorTriggerEventEnumNet trigger_event, int trigger_number, [System::Runtime::InteropServices::Out]W2100DigitalSourceEnumNet% digstream_source, [System::Runtime::InteropServices::Out]int% bitnumber_offset)
- void SetDigitalStimulatorTriggerSlope (int TimeSlotNr, DigitalStimulatorTriggerEventEnumNet trigger_event, int trigger_number, DigitalStimulatorTriggerSlopeEnumNet slope)
- DigitalStimulatorTriggerSlopeEnumNet GetDigitalStimulatorTriggerSlope (int TimeSlotNr, DigitalStimulatorTriggerEventEnumNet trigger_event, int trigger_number)
- · void StartPoll ()
- void StopPoll ()

Static Public Attributes

- static const uint32_t BOOST_BIT = (1 << 0)
- static const uint32 t GND SWITCH BIT = (1 << 1)
- static const uint32 t SYNC BIT0 = (1 << 2)
- static const uint32_t SYNC_BIT1 = (1 << 3)

Events

• OnStgPollStatus^ PollStatusEvent

Additional Inherited Members

11.121.1 Constructor & Destructor Documentation

```
11.121.1.1 CW2100_StimulatorFunctionNet() CW2100_StimulatorFunctionNet (
CMcsUsbNet^ mcsusb )
```

11.121.2 Member Function Documentation

Delete a Stimulus Pattern from STG memory

Parameters

channel specifies the channel to clear.

```
11.121.2.2 GetBoostAlwaysOnMode() uint32_t GetBoostAlwaysOnMode ()
```

```
11.121.2.3 GetBoostPreTime() uint32_t GetBoostPreTime ( )
```

```
11.121.2.4 GetCurrentRangeInNanoAmp() int GetCurrentRangeInNanoAmp ( uint32_t channel )
```

Gets the Current Range of the specified channel in Nanoamps.

Parameters

Returns

The Current Range of the specified channel in Nanoamps.

11.121.2.5 GetCurrentResolutionInNanoAmp() int GetCurrentResolutionInNanoAmp (uint32_t channel)

Gets the Current Resolution of the specified channel in Nanoamps.

Parameters

channel	Channel which is queried.
---------	---------------------------

Returns

The Current Resolution of the specified channel in Nanoamps.

11.121.2.6 GetDACResolution() int GetDACResolution ()

Gets number of bits of the DAC resolution.

Returns

The DAC resolution in bits.

```
11.121.2.7 GetDigitalStimulatorTrigger() void GetDigitalStimulatorTrigger (
int TimeSlotNr.
```

```
int TimeSlotNr,
DigitalStimulatorTriggerEventEnumNet trigger_event,
int trigger_number,
[System::Runtime::InteropServices::Out] W2100DigitalSourceEnumNet% digstream_
source,
[System::Runtime::InteropServices::Out] int% bitnumber_offset )
```

```
\textbf{11.121.2.8} \quad \textbf{GetDigitalStimulatorTriggerSlope()} \quad \texttt{DigitalStimulatorTriggerSlopeEnumNet} \quad \texttt{GetDigital} \leftarrow \\
```

```
11.121.2.9 GetNumberOfAnalogChannels() uint32_t GetNumberOfAnalogChannels ( )
11.121.2.10 GetNumberOfSyncoutChannels() uint32_t GetNumberOfSyncoutChannels ( )
11.121.2.11 GetNumberOfTriggerInputs() uint32_t GetNumberOfTriggerInputs ()
11.121.2.12 GetStimulationPatternMemory() uint32_t GetStimulationPatternMemory ( )
11.121.2.13 GetTimeResolutionInNanoSeconds() int GetTimeResolutionInNanoSeconds ( )
Gets number of bits of the DAC resolution.
Returns
     The time resolution in ns.
11.121.2.14 GetTimeSlot() int GetTimeSlot ( )
11.121.2.15 GetVoltageRangeInMicroVolt() int GetVoltageRangeInMicroVolt (
             uint32_t channel )
Gets the Voltage Range of the specified channel in Microvolts.
Parameters
          Channel which is queried.
 channel
```

Returns

The Voltage Range of the specified channel in Microvolts.

11.121.2.16 GetVoltageResolutionInMicroVolt() int GetVoltageResolutionInMicroVolt (uint32_t channel)

Gets the Voltage Resolution of the specified channel in Microvolts.

channel	Channel which is queried.
---------	---------------------------

Returns

The Voltage Resolution of the specified channel in Microvolts.

Start (Trigger) the STG. The startup delay is in the range of a few ms.

```
11.121.2.17 PrepareData() CStimulusFunctionNet::StimulusDeviceDataAndUnrolledData ^ Prepare←
Data (
                                              int channel,
                                              array< int32_t >^{\land} amplitude,
                                              array< uint64_t >^{\land} duration,
                                              STG_DestinationEnumNet destType,
                                              uint32_t repeat )
11.121.2.18 PrepareDataSync() CStimulusFunctionNet::StimulusDeviceDataAndUnrolledData ^ Prepare←
DataSync (
                                              int channel,
                                              array< int32_t >^{\land} amplitude,
                                              array< uint32_t >^{\land} Sync,
                                              array< uint64_t >^{\wedge} duration,
                                              STG_DestinationEnumNet destType,
                                              uint32_t repeat )
11.121.2.19 SelectTimeSlot() void SelectTimeSlot (
                                              int TimeSlotNr )
11.121.2.20 SendPreparedData() void SendPreparedData (
                                              int channel,
                                              {\tt CStimulusFunctionNet::StimulusDeviceDataAndUnrolledData^$$ device\_data\_and\_unrolled, and all of the control of the contro
                                              STG_DestinationEnumNet destType )
11.121.2.21 SendStart() void SendStart (
                                              uint32_t triggermap )
```

triggernap A bitmap of triggers which will be started.	triggermap	A bitmap of triggers which will be started.
--	------------	---

```
11.121.2.22 SendStop() void SendStop ( uint32_t triggermap)
```

Stop some or all triggers of the STG.

Parameters

```
11.121.2.23 SetDigitalStimulatorTrigger() void SetDigitalStimulatorTrigger (
```

```
int TimeSlotNr,
DigitalStimulatorTriggerEventEnumNet trigger_event,
int trigger_number,
W2100DigitalSourceEnumNet digstream_source,
int bitnumber_offset )
```

$\textbf{11.121.2.24} \quad \textbf{SetDigitalStimulatorTriggerSlope()} \quad \texttt{void SetDigitalStimulatorTriggerSlope} \quad \textbf{(} \\$

```
int TimeSlotNr,
DigitalStimulatorTriggerEventEnumNet trigger_event,
int trigger_number,
DigitalStimulatorTriggerSlopeEnumNet slope )
```

```
11.121.2.25 StartPoll() void StartPoll ()
```

```
11.121.2.26 StopPoll() void StopPoll ( )
```

11.121.3 Member Data Documentation

```
11.121.3.1 BOOST_BIT const uint32_t BOOST_BIT = (1 << 0) [static]
```

```
11.121.3.2 GND_SWITCH_BIT const uint32_t GND_SWITCH_BIT = (1 << 1) [static]
```

```
11.121.3.3 SYNC_BIT0 const uint32_t SYNC_BIT0 = (1 << 2) [static]
```

```
11.121.3.4 SYNC_BIT1 const uint32_t SYNC_BIT1 = (1 << 3) [static]
```

11.121.4 Event Documentation

11.121.4.1 PollStatusEvent OnStgPollStatus^ PollStatusEvent

11.122 CW2100DacqGroupChannelSelectionNet Class Reference

Inheritance diagram for CW2100DacqGroupChannelSelectionNet:



Public Member Functions

CW2100DacqGroupChannelSelectionNet (CMcsUsbNet[^] mcsusb)

Additional Inherited Members

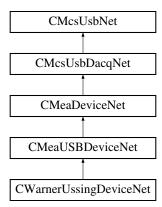
11.122.1 Constructor & Destructor Documentation

11.122.1.1 CW2100DacqGroupChannelSelectionNet() CW2100DacqGroupChannelSelectionNet (
CMcsUsbNet^ mcsusb)

11.123 CWarnerUssingDeviceNet Class Reference

CWarnerUssingDeviceNet is the class to control the Ussing device

Inheritance diagram for CWarnerUssingDeviceNet:



Public Member Functions

- CWarnerUssingDeviceNet ()
 - Initializes a new instance of the CWarnerUssingDeviceNet class.
- virtual ∼CWarnerUssingDeviceNet ()
- !CWarnerUssingDeviceNet ()

Properties

• CWarnerUssingFunctionNet[^] WarnerUssingFunction [get]

Additional Inherited Members

11.123.1 Detailed Description

CWarnerUssingDeviceNet is the class to control the Ussing device

11.123.2 Constructor & Destructor Documentation

11.123.2.1 CWarnerUssingDeviceNet() CWarnerUssingDeviceNet ()

Initializes a new instance of the CWarnerUssingDeviceNet class.

11.123.2.2 ~CWarnerUssingDeviceNet() virtual ~CWarnerUssingDeviceNet () [virtual]

11.123.2.3 "!CWarnerUssingDeviceNet() !CWarnerUssingDeviceNet ()

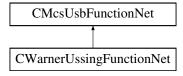
11.123.3 Property Documentation

11.123.3.1 WarnerUssingFunction CWarnerUssingFunctionNet^ WarnerUssingFunction [get]

11.124 CWarnerUssingFunctionNet Class Reference

CWarnerUssingFunctionNet is the class to control the Ussing device

Inheritance diagram for CWarnerUssingFunctionNet:



Public Member Functions

CWarnerUssingFunctionNet (CMcsUsbNet[^] mcsusb, CMcsUsbFunctionPointerContainer[^] pWarner
 — UssingFunctionPointerContainer)

Initializes a new instance of the CWarnerUssingFunctionNet class.

- CWarnerUssingFunctionNet (CMcsUsbNet[^] mcsusb)
- virtual ~CWarnerUssingFunctionNet ()
- !CWarnerUssingFunctionNet ()
- int32_t GetChannelsCountOfChamber (int32_t ChamberId)

gets number of channels in datastream from chamber amp with given index

• int32_t GetNumberOfHardwareSlotsForChambers ()

gets number of physical hardware slots for chambers amps

• int32_t GetNumberOfAvailableChambers ()

gets number of actually connected chamber amps

• bool IsChamberAvailable (int32_t ChamberId)

checks whether chamber amp is connected to slot

• void SetPulse (int32_t ChamberId, UssingClampModeEnumNet StgMode, int32_t NumberOfRepetitions, array< int >^ Amplitudes, array< int >^ Durations, array< int >^ PulseMarker)

defines stimulation pulse pattern for voltage or current stimulation; CAUTION: zero-length amplitude will be briefly applied -> choose matching to neighbour to avoid spikes

void SetVoltageClampControllerParam_P (int32_t ChamberId, uint32_t P)

sets P value of PID controller;

• void SetVoltageClampControllerParam I (int32 t Chamberld, uint32 t I)

sets I value of PID controller;

void SetVoltageClampControllerParam D (int32 t Chamberld, uint32 t D)

sets D value of PID controller;

• uint32 t GetVoltageClampControllerParam P (int32 t Chamberld)

gets P value of PID controller;

```
    uint32_t GetVoltageClampControllerParam_I (int32_t ChamberId)

     gets I value of PID controller;

    uint32_t GetVoltageClampControllerParam_D (int32_t ChamberId)

     gets D value of PID controller;

    void SetClampMode (int32_t Chamberld, UssingClampModeEnumNet NewClampMode)

     sets clamp mode (voltage, current or open clamp)

    UssingClampModeEnumNet GetClampMode (int32_t ChamberId)

     gets clamp mode (voltage, current or open clamp; do not use when device is in internal calibration mode)

    bool IsInternalCalibrationFinished (int32_t ChamberId)

     when internal calibration is finished, values for U1,2 offset and U1,2 reference and DAC offset are available
• int32 t GetU1Offset (int32 t ChamberId)

    int32 t GetU2Offset (int32 t ChamberId)

    int32_t GetU1Reference (int32_t ChamberId)

    int32 t GetU2Reference (int32 t Chamberld)

    int32_t GetDacZero (int32_t ChamberId)

    void SetHighCurrentMode (int32 t ChamberId)

     switch to high-current mode

    void SetLowCurrentMode (int32 t ChamberId)

     switch to low-current mode

    bool IsHighCurrentMode (int32 t ChamberId)

    uint32_t GetLowCurrentRange (int32_t Chamberld)

     query the range of the low current mode

    uint32_t GetHighCurrentRange (int32_t ChamberId)

     query the range of the high current mode

    uint32_t GetDacPampsPerDigitLowCurrentRange (int32_t ChamberId)

     get the resolution of the low current mode

    uint32 t GetDacPampsPerDigitHighCurrentRange (int32 t ChamberId)

     get the resolution of the high current mode

    uint32_t GetUnitsPerDigit (int32_t Chamberld, int32_t Channelld)

     gets amps/volts per digit for specified chamber and channel
• int32 t GetUnitExponent (int32 t Chamberld, int32 t Channelld)
     gets the unit exponent for specified chamber and channel

    UssingUnitEnumNet GetUnitName (int32_t ChamberId, int32_t ChannelId)

      gets the channel's unit name

    String \(^\) GetUnitDescription (int32 t Chamberld, int32 t Channelld)

     gets the description for the unit

    array< int > ^ GetAvailableChambers ()

     returns array with (zero-based) Chamberlds of all available chambers

    int32 t GetUptimeSeconds (int32 t ChamberId)

     gets the uptime in seconds

    void SetIdleModeOffset (int32_t ChamberId, UssingClampModeEnumNet ClampMode, int32_t NewIdle

     sets the offset (voltage or current) that will be applied when clamping is DISABLED

    int32 t GetIdleModeOffset (int32 t ChamberId, UssingClampModeEnumNet ClampMode)

     gets the offset (voltage or current) that will be applied when clamping is DISABLED

    void SetEnablePulse (int32 t Chamberld, UssingClampModeEnumNet ClampMode, bool Enable)

     enable pulse of given chamber and mode (voltage/current clamp) of this chamber

    bool IsPulseEnabled (int32_t Chamberld, UssingClampModeEnumNet ClampMode)

     returns true when pulse of given chamber and current mode (voltage/current clamp) of this chamber is ENABLED

    void SetLiquidResistance (int32 t Chamberld, int32 t NewLiquidResistance Ohm)
```

sets the resistance of the liquid

- int32_t GetLiquidResistance (int32_t Chamberld)
 - gets the resistance of the liquid
- int32_t GetComplianceVoltageThreshold (int32_t Chamberld)

returns compliance voltage threshold in uV; when Uc is above, current source is overloaded

bool CompensateElectrodeOffset (int32_t ChamberId)

blocking call to compensate electrode offset of one chamber; returns true when successful

bool WaitForChamber (int32_t ChamberId)

blocking call that waits for chamber boot-up calibration to complete

bool WaitForAllChambers ()

blocking call that waits for ALL chambers' boot-up calibration to complete

Additional Inherited Members

11.124.1 Detailed Description

CWarnerUssingFunctionNet is the class to control the Ussing device

11.124.2 Constructor & Destructor Documentation

Initializes a new instance of the CWarnerUssingFunctionNet class.

```
11.124.2.2 CWarnerUssingFunctionNet() [2/2] CWarnerUssingFunctionNet (
CMcsUsbNet^ mcsusb )
```

```
11.124.2.3 ~CWarnerUssingFunctionNet() virtual ~CWarnerUssingFunctionNet ( ) [virtual]
```

```
11.124.2.4 "!CWarnerUssingFunctionNet() !CWarnerUssingFunctionNet ()
```

11.124.3 Member Function Documentation

```
11.124.3.1 CompensateElectrodeOffset() bool CompensateElectrodeOffset ( int32_t ChamberId )
```

blocking call to compensate electrode offset of one chamber; returns true when successful

Chamber⊷	index of hardware chamber slot (zero-based)	
ld		

Returns

true if compensation succeeded

11.124.3.2 GetAvailableChambers() array<int> ^ GetAvailableChambers ()

returns array with (zero-based) Chamberlds of all available chambers

11.124.3.3 GetChannelsCountOfChamber() int32_t GetChannelsCountOfChamber (int32_t ChamberId)

gets number of channels in datastream from chamber amp with given index

Parameters

Chamber⊷	index of hardware chamber slot (zero-based)
ld	

Returns

return value of zero means that amp is not placed

11.124.3.4 GetClampMode() UssingClampModeEnumNet GetClampMode (int32_t ChamberId)

gets clamp mode (voltage, current or open clamp; do not use when device is in internal calibration mode)

Parameters

Chamber⊷	index of hardware chamber slot (zero-based)
ld	

Returns

the current clamp mode

11.124.3.5 GetComplianceVoltageThreshold() int32_t GetComplianceVoltageThreshold (

int32_t ChamberId)

returns compliance voltage threshold in uV; when Uc is above, current source is overloaded

Parameters

Chamber⊷	index of hardware chamber slot (zero-based)
ld	

Returns

the compliance voltage threshold in uV

get the resolution of the high current mode

Parameters

Chamber⊷	index of hardware chamber slot (zero-based)
ld	

Returns

unit: pA/digit in high current mode

11.124.3.7 GetDacPampsPerDigitLowCurrentRange() uint32_t GetDacPampsPerDigitLowCurrentRange (int32_t ChamberId)

get the resolution of the low current mode

Parameters

Chamber⊷	index of hardware chamber slot (zero-based)
ld	

Returns

pA/digit in low current mode

11.124.3.8 GetDacZero() int32_t GetDacZero (int32_t ChamberId)

 diagnostic function only -; gets real zero value of DAC in digits (0 -> neg. current; 32767 -> near zero; 65535 -> pos. current)

Parameters

Chamber⊷	index of hardware chamber slot (zero-based)
ld	

Returns

the zero value of the DAC

query the range of the high current mode

Parameters

Chamber⊸	index of hardware chamber slot (zero-based)
ld	

Returns

low current range in nA

gets the offset (voltage or current) that will be applied when clamping is DISABLED

Parameters

Chamberld	index of hardware chamber slot (zero-based)
ClampMode	voltage or current clamp stimulation

Returns

unit: nA or uV

11.124.3.11 GetLiquidResistance() int32_t GetLiquidResistance (

int32_t ChamberId)

gets the resistance of the liquid

Parameters

Chamber⊷	index of hardware chamber slot (zero-based)
ld	

Returns

the liquid restistance in ohm

$\textbf{11.124.3.12} \quad \textbf{GetLowCurrentRange()} \quad \texttt{uint32_t GetLowCurrentRange ()}$

int32_t ChamberId)

query the range of the low current mode

Parameters

Chamber⊷	index of hardware chamber slot (zero-based)
ld	

Returns

low current range in nA

11.124.3.13 GetNumberOfAvailableChambers() int32_t GetNumberOfAvailableChambers ()

gets number of actually connected chamber amps

Returns

the number of actually connected chambers

$\textbf{11.124.3.14} \quad \textbf{GetNumberOfHardwareSlotsForChambers()} \quad \texttt{int32_t} \quad \texttt{GetNumberOfHardwareSlotsFor} \leftarrow \textbf{11.124.3.14} \quad \textbf{GetNumberOfHardwareSlotsForChambers()} \quad \textbf{Int32_t} \quad \textbf{GetNumberOfHardwareSlotsForChambers()} \quad \textbf{Int34_t} \quad \textbf{GetNumberOfHardwareSlotsForChambers()} \quad \textbf{GetNumberOfHardwareSlotsForChambers()} \quad \textbf{Int34_t} \quad \textbf{GetNumberOfHardwareSlotsForChambers()} \quad \textbf{GetNumberSlotsForChambers()} \quad \textbf{GetNumbers()} \quad \textbf{G$

Chambers ()

gets number of physical hardware slots for chambers amps

Returns

the number of hardware chamber slots on the backplane

· diagnostic function only -

Chamber⊷	index of hardware chamber slot (zero-based)
ld	

Returns

U1 offset

· diagnostic function only -

Parameters

Chamber←	index of hardware chamber slot (zero-based)
ld	

Returns

U1 reference

· diagnostic function only -

Parameters

Chamber⊷	index of hardware chamber slot (zero-based)
ld	

Returns

U2 offset

· diagnostic function only -

Chamber⊷	index of hardware chamber slot (zero-based)
ld	

Returns

U2 reference

gets the description for the unit

Parameters

Chamber⊷ Id	index of hardware chamber slot (zero-based)
Channelld	index of channel (zero-based)

Returns

the description of the unix

gets the unit exponent for specified chamber and channel

Parameters

Chamber← Id	index of hardware chamber slot (zero-based)
Channelld	index of channel (zero-based)

Returns

example: return value -9 means that amps/volts per digit is in nano

int32_t ChannelId)

gets the channel's unit name

Parameters

Chamber⊷	index of hardware chamber slot (zero-based)
ld	
Channelld	index of channel (zero-based)

Returns

the name of the unit

gets amps/volts per digit for specified chamber and channel

Parameters

Chamber←	index of hardware chamber slot (zero-based)
ld	
Channelld	index of channel (zero-based)

Returns

amps/volts per digit

11.124.3.23 GetUptimeSeconds() int32_t GetUptimeSeconds (int32_t ChamberId)

gets the uptime in seconds

Parameters

Chamber⊷	index of hardware chamber slot (zero-based)
ld	

Returns

seconds since power-on

11.124.3.24 GetVoltageClampControllerParam_D() uint32_t GetVoltageClampControllerParam_D (int32_t ChamberId)

gets D value of PID controller;

Parameters

Chamber⊷	index of hardware chamber slot (zero-based)
ld	

Returns

the D value

11.124.3.25 GetVoltageClampControllerParam_I() uint32_t GetVoltageClampControllerParam_I (int32_t ChamberId)

gets I value of PID controller;

Parameters

Chamber⊷	index of hardware chamber slot (zero-based)
ld	

Returns

the I value

11.124.3.26 GetVoltageClampControllerParam_P() uint32_t GetVoltageClampControllerParam_P (int32_t ChamberId)

gets P value of PID controller;

Parameters

Chamber⊷	index of hardware chamber slot (zero-based)
ld	

Returns

the P value

11.124.3.27 IsChamberAvailable() bool IsChamberAvailable (int32_t ChamberId)

checks whether chamber amp is connected to slot

Parameters

Chamber⊷	index of hardware chamber slot (zero-based)
ld	

Returns

true if the chamber is available

11.124.3.28 IsHighCurrentMode() bool IsHighCurrentMode (int32_t *ChamberId*)

Parameters

Chamber⊷	index of hardware chamber slot (zero-based)
ld	

Returns

true if in hight current mode

11.124.3.29 IsInternalCalibrationFinished() bool IsInternalCalibrationFinished (int32_t ChamberId)

when internal calibration is finished, values for U1,2_offset and U1,2_reference and DAC_offset are available

Parameters

Chamber⊷	index of hardware chamber slot (zero-based)
ld	

Returns

true if finished

returns true when pulse of given chamber and current mode (voltage/current clamp) of this chamber is ENABLED

Chamberld	index of hardware chamber slot (zero-based)
ClampMode	voltage or current clamp stimulation

Returns

when ENABLED, previously defined pulse pattern will be applied, otherwise the chamber current/voltage will be kept at specified offset level

sets clamp mode (voltage, current or open clamp)

Parameters

Chamberld	index of hardware chamber slot (zero-based)
NewClampMode	the clamp mode to use

enable pulse of given chamber and mode (voltage/current clamp) of this chamber

Parameters

Chamberld	index of hardware chamber slot (zero-based)
ClampMode	voltage or current clamp stimulation
Enable	when ENABLED, previously defined pulse pattern will be applied, otherwise the chamber current/voltage will be kept at specified offset level

```
11.124.3.33 SetHighCurrentMode() void SetHighCurrentMode ( int32_t ChamberId )
```

switch to high-current mode

Chamber⊷	index of hardware chamber slot (zero-based)
ld	

sets the offset (voltage or current) that will be applied when clamping is DISABLED

Parameters

Chamberld	index of hardware chamber slot (zero-based)
ClampMode	voltage or current clamp stimulation
NewIdleOffset	unit: nA or uV

sets the resistance of the liquid

Parameters

Chamberld	index of hardware chamber slot (zero-based)
NewLiquidResistance_Ohm	the liquid resistiance in ohm

```
11.124.3.36 SetLowCurrentMode() void SetLowCurrentMode (
    int32_t ChamberId )
```

switch to low-current mode

Parameters

Chamber←	index of hardware chamber slot (zero-based)
ld	

```
11.124.3.37 SetPulse() void SetPulse ( int32_t ChamberId,
```

```
UssingClampModeEnumNet StgMode,
int32_t NumberOfRepetitions,
array< int >^ Amplitudes,
array< int >^ Durations,
array< int >^ PulseMarker )
```

defines stimulation pulse pattern for voltage or current stimulation; CAUTION: zero-length amplitude will be briefly applied -> choose matching to neighbour to avoid spikes

Parameters

Chamberld	index of hardware chamber slot (zero-based); send pattern to connected amp
StgMode	voltage or current clamp stimulation
NumberOfRepetitions	number of repetitions for pulse pattern (-1 for infinite; n means pattern is applied n+1 times)
Amplitudes	amplitude; unit in voltage clamp: uV; unit in current clamp: nA
Durations	duration in 100us; CAUTION: first element is applied only one; auto-loop back to second element after last one
PulseMarker	defines values on digital channel for each step (positive: digital channel "01", neg: "10", zero: "00")

11.124.3.38 SetVoltageClampControllerParam_D() void SetVoltageClampControllerParam_D (int32_t ChamberId, uint32_t D)

sets D value of PID controller;

Parameters

Chamber← Id	index of hardware chamber slot (zero-based)
D	useful range: 0700

11.124.3.39 SetVoltageClampControllerParam_I() void SetVoltageClampControllerParam_I (int32_t ChamberId, uint32_t I)

sets I value of PID controller;

Parameters

	index of hardware chamber slot (zero-based)
ld	
1	useful range: 80000120000

11.124.3.40 SetVoltageClampControllerParam_P() void SetVoltageClampControllerParam_P (

```
int32_t ChamberId,
uint32_t P )
```

sets P value of PID controller;

Parameters

Chamber←	index of hardware chamber slot (zero-based)
P	useful value: 130000

11.124.3.41 WaitForAllChambers() bool WaitForAllChambers ()

blocking call that waits for ALL chambers' boot-up calibration to complete

Returns

returns false when at least one chamber's calibration fails (e.g. timeout...)

blocking call that waits for chamber boot-up calibration to complete

Parameters

Chamber←	index of hardware chamber slot (zero-based)
ld	

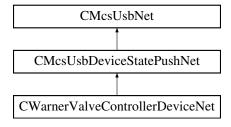
Returns

returns false when calibration fails (e.g. timeout...)

11.125 CWarnerValveControllerDeviceNet Class Reference

CWarnerValveControllerDeviceNet is the class to access the Warner Valve Controller

Inheritance diagram for CWarnerValveControllerDeviceNet:



Public Member Functions

- delegate void OnGetValveActive (uint16 t valve, int valveActive)
- delegate void OnGetValveManualState (uint16_t valve, int32_t valveManualState)
- delegate void OnGetValveManualGroup (uint16_t valve, int32_t valveManualGroup)
- delegate void OnGetValveMode (uint16_t valve, WvcValveModeEnumNet ValveMode)
- delegate void OnGetAnalogThresholdLow (uint16_t valve, int32_t threshold)
- delegate void OnGetAnalogThresholdHigh (uint16_t valve, int32_t threshold)
- delegate void OnGetDigitalPortDirection (uint16_t port, PortDirectionEnumNet direction)
- delegate void OnlsValveDigitalInInverted (uint16_t valve, bool isInverted)
- delegate void OnGetValveDigitalInPort (uint16_t valve, uint32_t digitalInPort)
- delegate void OnlsDigitalOutPortInverted (uint16_t digitalOutPort, bool isInverted)
- delegate void OnGetDigitalOutPortValve (uint16_t digitalOutPort, uint32_t valve)
- delegate void OnlsValveOpen (uint16_t valve, bool valveOpen)
- delegate void OnlsValveOpenInDigitalMode (uint16 t valve, bool valveOpen)
- delegate void OnlsValveOpenInAnalogMode (uint16_t valve, bool valveOpen)
- delegate void OnGetAnalogVoltage (int32 t voltage)
- delegate void OnTableEntryChanged (uint16 t tableNumber)
- delegate void OnGetTableNamebyIndex (uint16 t tableNumber, String[^] tableName)
- delegate void OnGetActiveRunningTableNumber (uint32_t tableNumber)
- delegate void OnGetCurrentNumberOfValves (int32_t numberOfValves)
- delegate void OnGetValveBoardRevision (uint32_t revision)
- delegate void OnGetValveLedOn (bool ledon)
- delegate void OnGetDisplayMode (WvcDisplayModeEnumNet DisplayMode)
- CWarnerValveControllerDeviceNet ()

Initializes a new instance of the CWarnerValveControllerDeviceNet class.

- virtual ~CWarnerValveControllerDeviceNet ()
- !CWarnerValveControllerDeviceNet ()
- int GetValveActive (uint16_t valve)

Gets the valve active/inactive state

void SetValveActive (uint16_t valve, int valveActive)

Sets the valve active/inactive state

• uint32_t GetValvesActiveMap ()

Gets the valves active/inactive states

void SetValvesActiveMap (uint32_t valvesActive)

Sets the valve active/inactive state

int32_t GetValveManualState (uint16_t valve)

Gets the valve manual on/off state

void SetValveManualState (uint16_t valve, int32_t valveManualState)

Sets the valve manual on/off state

uint32 t GetValvesManualStateMap ()

Gets the valves manual on/off states

void SetValvesManualStateMap (uint32 t valveaManualState)

Sets the valve manual on/off state

int32_t GetValveManualGroup (uint16_t valve)

Gets the valve manual group

void SetValveManualGroup (uint16 t valve, int32 t valveManualGroup)

Sets the valve manual group

WvcValveModeEnumNet GetValveMode (uint16_t valve)

Reads the valve mode

void SetValveMode (uint16 t valve, WvcValveModeEnumNet ValveMode)

Writes the valve mode

• int32_t GetAnalogThresholdLow (uint16_t valve)

Gets the lower threshold for the analog in port per valve

void SetAnalogThresholdLow (uint16_t valve, int32_t threshold)

Sets the lower threshold for the analog in port per valve

int32 t GetAnalogThresholdHigh (uint16 t valve)

Gets the upper threshold for the analog in port per valve

void SetAnalogThresholdHigh (uint16_t valve, int32_t threshold)

Sets the upper threshold for the analog in port per valve

PortDirectionEnumNet GetDigitalPortDirection (uint16 t port)

Gets the direction of a digital port

void SetDigitalPortDirection (uint16_t port, PortDirectionEnumNet direction)

Sets the direction of a digital port

bool IsValveDigitalInInverted (uint16_t valve)

Is digital in inverted

void SetValveDigitalInInvert (uint16_t valve, bool isInverted)

Invert digital in

uint32_t GetValveDigitalInPort (uint16_t valve)

Gets the number of the digital in port which is mapped to a valve

• void SetValveDigitalInPort (uint16_t valve, uint32_t digitalInPort)

Map a digital in port to a valve

bool IsDigitalOutPortInverted (uint16_t digitalOutPort)

Gets the number of the valve which is mapped to a digital out port

void SetDigitalOutPortInvert (uint16_t digitalOutPort, bool isInverted)

Map a valve to a digital out port

uint32_t GetDigitalOutPortValve (uint16_t digitalOutPort)

Gets the number of the valve which is mapped to a digital out port

void SetDigitalOutPortValve (uint16_t digitalOutPort, uint32_t valve)

Map a valve to a digital out port

void SetDefault ()

Sets the settings of the valve controller to default

bool IsValveOpen (uint16_t valve)

Is valve open

bool IsValveOpenInDigitalMode (uint16_t valve)

True, if the valve would be open when the device is in digital mode

bool IsValveOpenInAnalogMode (uint16_t valve)

True, if the valve would be open when the device is in analog mode

• int32_t GetAnalogVoltage ()

Reads the voltage on the analog in port

void GetValveTableEntry (uint16_t valve, uint16_t index, [System::Runtime::InteropServices::Out]uint32_t% duration, [System::Runtime::InteropServices::Out]bool% state)

Read an entry from the valve protocol table

• void SetValveTableEntry (uint16 t valve, uint16 t index, uint32 t duration, bool state)

Write an entry to the valve protocol table

void ClearValveTable (uint16_t valve)

Clear the valve protocol table

void LoadValveTable ()

Load the current table from permanent memory

void StoreValveTable ()

Store the current table in permanent memory

String \(^\) GetTableNamebyIndex (uint16 t tableNumber)

Get the name of a protocol table

• String ^ GetTableName ()

Get the name of the current protocol table

void SetTableName (String[^] tableName)

Set the name of the current protocol table

• uint32 t GetActiveRunningTableNumber ()

Gets the number of the table that is active for running

void SetActiveRunningTableNumber (uint32_t tableNumber)

Sets the number of the tanle that is active for running

uint32 t GetCurrentEditTableNumber ()

Gets the number of the table that is current for editing

void SetCurrentEditTableNumber (uint32_t tableNumber)

Sets the number of the table that is current for editing

void ClearTableName ()

Clear the name of current protocol table

• void SetTableStep (uint16_t valve, int32_t steps)

Skips the table protocol for a valve by steps

void SetTableStepAll (int32 t steps)

Skips the table protocol for all valves by steps

int32 t GetTotalNumberOfValves ()

Get the total number of valves in the system

int32_t GetTotalNumberOfDigitalPorts ()

Get the total number of digital ports in the system

int32_t GetTotalTableSize ()

Get the total table size in the system

int32_t GetTotalNumberOfTables ()

Get the total number of tables in the system

int32_t GetCurrentNumberOfValves ()

Get the current number of valves connected to the system

uint32_t GetValveBoardRevision ()

Gets the revision code of the valve board

• bool GetValveLedOn ()

Gets the LED state of the valve board

void SetValveLedOn (bool ledon)

Gets the LED state of the valve board

WvcDisplayModeEnumNet GetDisplayMode ()

Reads the display mode

void SetDisplayMode (WvcDisplayModeEnumNet DisplayMode, int32_t lockTimeMs)

Writes the display mode

String \(^\) GetValveBoardRevisionString ()

Gets the revision name of the valve board

Gets the valve currents

void SetValveCurrent (int16_t switch_current, int16_t hold_current)

Sets the valve currents different from the default

Events

• OnGetValveActive^ GetValveActiveEvent [add, remove, raise]

Event fires when the valve state for the valve number has changed

• OnGetValveManualState^ GetValveManualStateEvent [add, remove, raise]

Event fires when the manual valve state for the valve number has changed

OnGetValveManualGroup[^] GetValveManualGroupEvent [add, remove, raise]

Event fires when the manual valve group for the valve number has changed

• OnGetValveMode GetValveModeEvent [add, remove, raise]

Event fires when the valve mode for the valve number has changed

• OnGetAnalogThresholdLow^ GetAnalogThresholdLowEvent [add, remove, raise]

Event fires when the threshold in mV for the valve number has changed

OnGetAnalogThresholdHigh[^] GetAnalogThresholdHighEvent [add, remove, raise]

Event fires when the threshold in mV for the valve number has changed

• OnGetDigitalPortDirection GetDigitalPortDirectionEvent [add, remove, raise]

Event fires when the direction for the port number has changed

• OnlsValveDigitalInInverted^ IsValveDigitalInInvertedEvent [add, remove, raise]

Event fires when is inverted for the valve number has changed

• OnGetValveDigitalInPort^ GetValveDigitalInPortEvent [add, remove, raise]

Event fires when the digital in port for the valve number has changed

• OnlsDigitalOutPortInverted^ IsDigitalOutPortInvertedEvent [add, remove, raise]

Event fires when is inverted for the digital out port has changed

• OnGetDigitalOutPortValve GetDigitalOutPortValveEvent [add, remove, raise]

Event fires when the valve number for the digital out port has changed

• OnlsValveOpen^ IsValveOpenEvent [add, remove, raise]

Event fires when is open for the valve number has changed

 $\bullet \ \ Onls Valve OpenIn Digital Mode ^ \land Is Valve OpenIn Digital Mode Event \ \ [add, remove, raise]\\$

Event fires when is open for the valve number has changed

• OnlsValveOpenInAnalogMode^ IsValveOpenInAnalogModeEvent [add, remove, raise]

Event fires when is open for the valve number has changed

• OnGetAnalogVoltage^ GetAnalogVoltageEvent [add, remove, raise]

Event fires when the voltage in mV has changed

OnTableEntryChanged^ TableEntryChangedEvent [add, remove, raise]

Event fires when an entry of a table changed

• OnGetTableNamebyIndex^ GetTableNamebyIndexEvent [add, remove, raise]

Event fires when the name of the table for the table number has changed

 $\bullet \ \ On Get Active Running Table Number ^ \ Get Active Running Table Number Event \ \ [add, remove, raise]$

Event fires when the table number has changed

• OnGetCurrentNumberOfValves^ GetCurrentNumberOfValvesEvent [add, remove, raise]

Event fires when the number of valves has changed

• OnGetValveBoardRevision GetValveBoardRevisionEvent [add, remove, raise]

Event fires when the revision code has changed

• OnGetValveLedOn^ GetValveLedOnEvent [add, remove, raise]

Event fires when the LED state has changed

• OnGetDisplayMode^ GetDisplayModeEvent [add, remove, raise]

Event fires when the display mode has changed

Additional Inherited Members

11.125.1 Detailed Description

CWarnerValveControllerDeviceNet is the class to access the Warner Valve Controller

11.125.2 Constructor & Destructor Documentation

```
11.125.2.1 CWarnerValveControllerDeviceNet() CWarnerValveControllerDeviceNet ()
```

Initializes a new instance of the CWarnerValveControllerDeviceNet class.

```
11.125.2.2 ~CWarnerValveControllerDeviceNet() virtual ~CWarnerValveControllerDeviceNet () [virtual]
```

```
11.125.2.3 "!CWarnerValveControllerDeviceNet() !CWarnerValveControllerDeviceNet ()
```

11.125.3 Member Function Documentation

11.125.3.1 ClearTableName() void ClearTableName ()

Clear the name of current protocol table

```
11.125.3.2 ClearValveTable() void ClearValveTable ( uint16_t valve )
```

Clear the valve protocol table

Parameters

valve The valve number

11.125.3.3 GetActiveRunningTableNumber() uint32_t GetActiveRunningTableNumber ()

Gets the number of the table that is active for running

Returns

The table number

11.125.3.4 GetAnalogThresholdHigh() int32_t GetAnalogThresholdHigh (uint16_t valve)

Gets the upper threshold for the analog in port per valve

Parameters

Returns

The threshold in mV

11.125.3.5 GetAnalogThresholdLow() int32_t GetAnalogThresholdLow (uint16_t valve)

Gets the lower threshold for the analog in port per valve

Parameters

Returns

The threshold in mV

11.125.3.6 GetAnalogVoltage() int32_t GetAnalogVoltage ()

Reads the voltage on the analog in port

Returns

The voltage in mV

11.125.3.7 GetCurrentEditTableNumber() uint32_t GetCurrentEditTableNumber ()

Gets the number of the table that is current for editing

Returns

The table number

11.125.3.8 GetCurrentNumberOfValves() int32_t GetCurrentNumberOfValves ()

Get the current number of valves connected to the system

Returns

The number of valves

```
11.125.3.9 GetDigitalOutPortValve() uint32_t GetDigitalOutPortValve ( uint16_t digitalOutPort )
```

Gets the number of the valve which is mapped to a digital out port

Parameters

digitalOutPort	The digital out port
----------------	----------------------

Returns

The valve number

11.125.3.10 GetDigitalPortDirection() PortDirectionEnumNet GetDigitalPortDirection (uint16_t port)

Gets the direction of a digital port

Parameters

```
port The port number
```

Returns

the direction

11.125.3.11 GetDisplayMode() WvcDisplayModeEnumNet GetDisplayMode ()

Reads the display mode

Returns

The display mode

```
11.125.3.12 GetTableName() String ^ GetTableName ( )
```

Get the name of the current protocol table

Returns

The name of the table

```
11.125.3.13 GetTableNamebyIndex() String ^{\land} GetTableNamebyIndex ( uint16_t tableNumber )
```

Get the name of a protocol table

Parameters

tableNumber	The table number
-------------	------------------

Returns

The name of the table

11.125.3.14 GetTotalNumberOfDigitalPorts() int32_t GetTotalNumberOfDigitalPorts ()

Get the total number of digital ports in the system

Returns

The number of digital ports

11.125.3.15 GetTotalNumberOfTables() int32_t GetTotalNumberOfTables ()

Get the total number of tables in the system

Returns

The number of tables

11.125.3.16 GetTotalNumberOfValves() int32_t GetTotalNumberOfValves ()

Get the total number of valves in the system

Returns

The number of valves

11.125.3.17 GetTotalTableSize() int32_t GetTotalTableSize ()

Get the total table size in the system

Returns

The table size

11.125.3.18 GetValveActive() int GetValveActive (uint16_t valve)

Gets the valve active/inactive state

Parameters

valve The valve number

Returns

The valve state

11.125.3.19 GetValveBoardRevision() uint32_t GetValveBoardRevision ()

Gets the revision code of the valve board

Returns

The revision code

$\textbf{11.125.3.20} \quad \textbf{GetValveBoardRevisionString()} \quad \texttt{String} \; \wedge \; \texttt{GetValveBoardRevisionString} \; (\;)$

Gets the revision name of the valve board

Returns

The revision name

```
11.125.3.21 GetValveCurrent() void GetValveCurrent (
```

```
[System::Runtime::InteropServices::Out] int16_t% switch_current, [System::Runtime::InteropServices::Out] int16_t% hold_current)
```

Gets the valve currents

Parameters

switch_current	The switch current (in DAC units)
hold_current	The hold current (in DAC units)

11.125.3.22 GetValveDigitalInPort() uint32_t GetValveDigitalInPort (uint16_t *valve*)

Gets the number of the digital in port which is mapped to a valve

Parameters

valve The valve number

Returns

The digital in port

11.125.3.23 GetValveLedOn() bool GetValveLedOn ()

Gets the LED state of the valve board

Returns

The LED state

```
11.125.3.24 GetValveManualGroup() int32_t GetValveManualGroup ( uint16_t valve )
```

Gets the valve manual group

valve The valve number

Returns

The manual valve group

```
11.125.3.25 GetValveManualState() int32_t GetValveManualState ( uint16_t valve )
```

Gets the valve manual on/off state

Parameters

valve	The valve number
-------	------------------

Returns

The manual valve state

```
11.125.3.26 GetValveMode() WvcValveModeEnumNet GetValveMode ( uint16_t valve )
```

Reads the valve mode

Parameters

valve The valve number

Returns

The valve mode

11.125.3.27 GetValvesActiveMap() uint32_t GetValvesActiveMap ()

Gets the valves active/inactive states

Returns

The valves states

11.125.3.28 GetValvesManualStateMap() uint32_t GetValvesManualStateMap ()

Gets the valves manual on/off states

Returns

The manual valves states

```
11.125.3.29 GetValveTableEntry() void GetValveTableEntry (
```

```
uint16_t valve,
uint16_t index,
[System::Runtime::InteropServices::Out] uint32_t% duration,
[System::Runtime::InteropServices::Out] bool% state )
```

Read an entry from the valve protocol table

Parameters

valve	The valve number	
index	The index in the table	
duration	the duration in ms	
state	the state	

11.125.3.30 IsDigitalOutPortInverted() bool IsDigitalOutPortInverted (uint16_t digitalOutPort)

Gets the number of the valve which is mapped to a digital out port

Parameters

digitalOutPort	The digital out port

Returns

is inverted

11.125.3.31 IsValveDigitalInInverted() bool IsValveDigitalInInverted (uint16_t valve)

Is digital in inverted

valve	The valve number
vaive	THE VAIVE HUITIDE

Returns

is inverted

```
11.125.3.32 | IsValveOpen() bool IsValveOpen (
```

uint16_t *valve*)

Is valve open

Parameters

valve The valve nun

Returns

is open

11.125.3.33 IsValveOpenInAnalogMode() bool IsValveOpenInAnalogMode (uint16_t *valve*)

True, if the valve would be open when the device is in analog mode

Parameters

Returns

is open

11.125.3.34 IsValveOpenInDigitalMode() bool IsValveOpenInDigitalMode (uint16_t valve)

True, if the valve would be open when the device is in digital mode

Parameters

valve The valve number

Returns

is open

```
11.125.3.35 LoadValveTable() void LoadValveTable ()
Load the current table from permanent memory
11.125.3.36 OnGetActiveRunningTableNumber() delegate void OnGetActiveRunningTableNumber (
             uint32_t tableNumber )
11.125.3.37 OnGetAnalogThresholdHigh() delegate void OnGetAnalogThresholdHigh (
             uint16_t valve,
             int32_t threshold )
11.125.3.38 OnGetAnalogThresholdLow() delegate void OnGetAnalogThresholdLow (
             uint16_t valve,
             int32_t threshold )
11.125.3.39 OnGetAnalogVoltage() delegate void OnGetAnalogVoltage (
             int32_t voltage )
11.125.3.40 OnGetCurrentNumberOfValves() delegate void OnGetCurrentNumberOfValves (
             int32_t numberOfValves )
\textbf{11.125.3.41} \quad \textbf{OnGetDigitalOutPortValve()} \quad \texttt{delegate void OnGetDigitalOutPortValve ()}
             uint16_t digitalOutPort,
             uint32_t valve )
11.125.3.42 OnGetDigitalPortDirection() delegate void OnGetDigitalPortDirection (
             uint16_t port,
             PortDirectionEnumNet direction )
11.125.3.43 OnGetDisplayMode() delegate void OnGetDisplayMode (
             WvcDisplayModeEnumNet DisplayMode )
```

```
11.125.3.44 OnGetTableNamebyIndex() delegate void OnGetTableNamebyIndex (
             uint16_t tableNumber,
             String^{\wedge} tableName )
11.125.3.45 OnGetValveActive() delegate void OnGetValveActive (
             uint16_t valve,
             int valveActive )
11.125.3.46 OnGetValveBoardRevision() delegate void OnGetValveBoardRevision (
             uint32_t revision )
11.125.3.47 OnGetValveDigitalInPort() delegate void OnGetValveDigitalInPort (
             uint16_t valve,
             uint32_t digitalInPort )
11.125.3.48 OnGetValveLedOn() delegate void OnGetValveLedOn (
             bool ledon )
11.125.3.49 OnGetValveManualGroup() delegate void OnGetValveManualGroup (
             uint16_t valve,
             int32_t valveManualGroup )
11.125.3.50 OnGetValveManualState() delegate void OnGetValveManualState (
             uint16_t valve,
             int32_t valveManualState )
11.125.3.51 OnGetValveMode() delegate void OnGetValveMode (
             uint16_t valve,
             WvcValveModeEnumNet ValveMode )
```

```
11.125.3.52 OnlsDigitalOutPortInverted() delegate void OnlsDigitalOutPortInverted (
               uint16_t digitalOutPort,
               bool isInverted )
\textbf{11.125.3.53} \quad \textbf{OnlsValveDigitalInInverted()} \quad \texttt{delegate void OnlsValveDigitalInInverted ()}
               uint16_t valve,
               bool is Inverted )
11.125.3.54 OnlsValveOpen() delegate void OnIsValveOpen (
              uint16_t valve,
               bool valveOpen )
\textbf{11.125.3.55} \quad \textbf{OnlsValveOpenInAnalogMode()} \quad \texttt{delegate void OnlsValveOpenInAnalogMode ()}
               uint16_t valve,
               bool valveOpen )
11.125.3.56 OnlsValveOpenInDigitalMode() delegate void OnlsValveOpenInDigitalMode (
              uint16_t valve,
              bool valveOpen )
11.125.3.57 OnTableEntryChanged() delegate void OnTableEntryChanged (
               uint16_t tableNumber )
11.125.3.58 SetActiveRunningTableNumber() void SetActiveRunningTableNumber (
               uint32_t tableNumber )
Sets the number of the tanle that is active for running
Parameters
 tableNumber
                The table number
\textbf{11.125.3.59} \quad \textbf{SetAnalogThresholdHigh()} \quad \texttt{void SetAnalogThresholdHigh ()}
               uint16_t valve,
```

int32_t threshold)

Sets the upper threshold for the analog in port per valve

Parameters

valve	The valve number
threshold	The threshold in mV

Sets the lower threshold for the analog in port per valve

Parameters

valve	The valve number
threshold	The threshold in mV

11.125.3.61 SetCurrentEditTableNumber() void SetCurrentEditTableNumber (uint32_t tableNumber)

Sets the number of the table that is current for editing

Parameters

tableNumber	The table number

11.125.3.62 SetDefault() void SetDefault ()

Sets the settings of the valve controller to default

Map a valve to a digital out port

digitalOutPort	The digital out port
isInverted	True if digital out is to be inverted

```
11.125.3.64 SetDigitalOutPortValve() void SetDigitalOutPortValve ( uint16_t digitalOutPort, uint32_t valve )
```

Map a valve to a digital out port

Parameters

digitalOutPort	The digital out port
valve	The valve number

Sets the direction of a digital port

Parameters

port	The port number
direction	the direction

Writes the display mode

Parameters

DisplayMode	The display mode
lockTimeMs	Locks the display for ms

```
11.125.3.67 SetTableName() void SetTableName ( String<sup>^</sup> tableName )
```

Set the name of the current protocol table

tableName	The name of the table
labiervarrie	The hame of the table

Skips the table protocol for a valve by steps

Parameters

valve	The valve number
steps	Number of steps

Skips the table protocol for all valves by steps

Parameters

steps	Number of steps
-------	-----------------

Sets the valve active/inactive state

Parameters

valve	The valve number
valveActive	The valve state

Sets the valve currents different from the default

switch_current	The switch current (in DAC units); -1 sets the device default current	
hold_current	The hold current (in DAC units); -1 sets the device default current	

$\textbf{11.125.3.72} \quad \textbf{SetValveDigitalInInvert()} \quad \texttt{void SetValveDigitalInInvert} \quad ($

```
uint16_t valve,
bool isInverted )
```

Invert digital in

Parameters

valve	The valve number
isInverted	True if digital in is to be inverted

$\textbf{11.125.3.73} \quad \textbf{SetValveDigitalInPort()} \quad \texttt{void SetValveDigitalInPort} \quad ($

```
uint16_t valve,
uint32_t digitalInPort )
```

Map a digital in port to a valve

Parameters

valve	The valve number
digitalInPort	The digital in port

$\textbf{11.125.3.74} \quad \textbf{SetValveLedOn()} \quad \texttt{void SetValveLedOn} \quad \textbf{(}$

bool ledon)

Gets the LED state of the valve board

Parameters

ledon The LED state

11.125.3.75 SetValveManualGroup() void SetValveManualGroup (

```
uint16_t valve,
int32_t valveManualGroup )
```

Sets the valve manual group

valve	The valve number
valveManualGroup	The manual valve group

Sets the valve manual on/off state

Parameters

valve	The valve number
valveManualState	The manual valve state

Writes the valve mode

Parameters

valve	The valve number
ValveMode	The valve mode

11.125.3.78 SetValvesActiveMap() void SetValvesActiveMap (uint32_t valvesActive)

Sets the valve active/inactive state

Parameters

valvesActive	The valves states

11.125.3.79 SetValvesManualStateMap() void SetValvesManualStateMap (uint32_t valveaManualState)

Sets the valve manual on/off state

valveaManualState The manual valves states
--

11.125.3.80 SetValveTableEntry() void SetValveTableEntry (

```
uint16_t valve,
uint16_t index,
uint32_t duration,
bool state )
```

Write an entry to the valve protocol table

Parameters

valve	The valve number
index	The index in the table
duration	the duration in ms
state	the state

11.125.3.81 StoreValveTable() void StoreValveTable ()

Store the current table in permanent memory

11.125.4 Event Documentation

11.125.4.1 GetActiveRunningTableNumberEvent OnGetActiveRunningTableNumber^ GetActiveRunning← TableNumberEvent [add], [remove], [raise]

Event fires when the table number has changed

11.125.4.2 GetAnalogThresholdHighEvent OnGetAnalogThresholdHigh^ GetAnalogThresholdHighEvent [add], [remove], [raise]

Event fires when the threshold in mV for the valve number has changed

11.125.4.3 GetAnalogThresholdLowEvent OnGetAnalogThresholdLow^ GetAnalogThresholdLowEvent [add], [remove], [raise]

Event fires when the threshold in mV for the valve number has changed

11.125.4.4 GetAnalogVoltageEvent OnGetAnalogVoltage^ GetAnalogVoltageEvent [add], [remove], [raise]

Event fires when the voltage in mV has changed

11.125.4.5 GetCurrentNumberOfValvesEvent OnGetCurrentNumberOfValves^ GetCurrentNumberOf← ValvesEvent [add], [remove], [raise]

Event fires when the number of valves has changed

11.125.4.6 GetDigitalOutPortValveEvent OnGetDigitalOutPortValve^ GetDigitalOutPortValveEvent [add], [remove], [raise]

Event fires when the valve number for the digital out port has changed

11.125.4.7 GetDigitalPortDirectionEvent OnGetDigitalPortDirection^ GetDigitalPortDirectionEvent [add], [remove], [raise]

Event fires when the direction for the port number has changed

11.125.4.8 **GetDisplayModeEvent** OnGetDisplayMode^ GetDisplayModeEvent [add], [remove], [raise]

Event fires when the display mode has changed

11.125.4.9 GetTableNamebyIndexEvent OnGetTableNamebyIndex^ GetTableNamebyIndexEvent [add], [remove], [raise]

Event fires when the name of the table for the table number has changed

11.125.4.10 GetValveActiveEvent OnGetValveActive^ GetValveActiveEvent [add], [remove], [raise]

Event fires when the valve state for the valve number has changed

11.125.4.11 GetValveBoardRevisionEvent OnGetValveBoardRevision^ GetValveBoardRevisionEvent [add], [remove], [raise]

Event fires when the revision code has changed

11.125.4.12 GetValveDigitalInPortEvent OnGetValveDigitalInPort^ GetValveDigitalInPortEvent [add], [remove], [raise]

Event fires when the digital in port for the valve number has changed

 $\textbf{11.125.4.13} \quad \textbf{GetValveLedOnEvent} \quad \texttt{OnGetValveLedOn}^{\land} \quad \texttt{GetValveLedOnEvent} \quad \texttt{[add], [remove], [raise]}$

Event fires when the LED state has changed

11.125.4.14 GetValveManualGroupEvent OnGetValveManualGroup^ GetValveManualGroupEvent [add], [remove], [raise]

Event fires when the manual valve group for the valve number has changed

11.125.4.15 GetValveManualStateEvent OnGetValveManualState^ GetValveManualStateEvent [add], [remove], [raise]

Event fires when the manual valve state for the valve number has changed

 $\textbf{11.125.4.16} \quad \textbf{GetValveModeEvent} \quad \texttt{OnGetValveMode}^{\wedge} \quad \texttt{GetValveModeEvent} \quad \texttt{[add], [remove], [raise]}$

Event fires when the valve mode for the valve number has changed

11.125.4.17 IsDigitalOutPortInvertedEvent OnIsDigitalOutPortInverted^ IsDigitalOutPortInverted← Event [add], [remove], [raise]

Event fires when is inverted for the digital out port has changed

11.125.4.18 IsValveDigitalInInvertedEvent OnIsValveDigitalInInverted[∧] IsValveDigitalInInverted← Event [add], [remove], [raise]

Event fires when is inverted for the valve number has changed

11.125.4.19 IsValveOpenEvent OnIsValveOpen^ IsValveOpenEvent [add], [remove], [raise]

Event fires when is open for the valve number has changed

11.125.4.20 IsValveOpenInAnalogModeEvent OnIsValveOpenInAnalogMode^ IsValveOpenInAnalogMode← Event [add], [remove], [raise]

Event fires when is open for the valve number has changed

11.125.4.21 IsValveOpenInDigitalModeEvent OnIsValveOpenInDigitalMode^ IsValveOpenInDigital← ModeEvent [add], [remove], [raise]

Event fires when is open for the valve number has changed

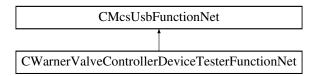
11.125.4.22 TableEntryChangedEvent OnTableEntryChanged^ TableEntryChangedEvent [add], [remove], [raise]

Event fires when an entry of a table changed

11.126 CWarnerValveControllerDeviceTesterFunctionNet Class Reference

CWarnerValveControllerDeviceTesterFunctionNet is the class to access the functions for the Warner Valve Controller Device Tester

 $Inheritance\ diagram\ for\ CWarner Valve Controller Device Tester Function Net:$



Public Member Functions

CWarnerValveControllerDeviceTesterFunctionNet (CMcsUsbNet[^] mcsusb, CMcsUsbFunctionPointerContainer[^] pWarnerValveControllerDeviceTesterFunctionPointerContainer)

Initializes a new instance of the CWarnerValveControllerDeviceTesterFunctionNet class.

- CWarnerValveControllerDeviceTesterFunctionNet (CMcsUsbNet[^] mcsusb)
- virtual ~CWarnerValveControllerDeviceTesterFunctionNet ()
- !CWarnerValveControllerDeviceTesterFunctionNet ()
- void SetADC (uint32_t onoff)

Sets the ADC port of the tester

uint32_t GetSync ()

Gets the output from the sync port

void SetTrigger (uint32_t trigger)

Sets the input to the trigger port

void SetTriggerSyncDirection (uint32 t direction)

Sets the direction of the trigger/sync test port

· uint32 t GetIO ()

Gets the output from the io ports

void SetIO (uint32_t io)

Sets the input to the io ports

void SetIODirection (int32 t direction)

Sets the direction of the IO test ports

Additional Inherited Members

11.126.1 Detailed Description

CWarnerValveControllerDeviceTesterFunctionNet is the class to access the functions for the Warner Valve Controller Device Tester

11.126.2 Constructor & Destructor Documentation

```
11.126.2.1 CWarnerValveControllerDeviceTesterFunctionNet() [1/2] CWarnerValveControllerDeviceTesterFunctionNet (

CMcsUsbNet^ mcsusb,

CMcsUsbFunctionPointerContainer^ pWarnerValveControllerDeviceTesterFunction↔

PointerContainer )
```

Initializes a new instance of the CWarnerValveControllerDeviceTesterFunctionNet class.

```
11.126.2.2 CWarnerValveControllerDeviceTesterFunctionNet() [2/2] CWarnerValveControllerDeviceTesterFunctionNet (

CMcsUsbNet^ mcsusb )
```

```
11.126.2.3 ~CWarnerValveControllerDeviceTesterFunctionNet() virtual ~CWarnerValveControllerDeviceTesterFunction() [virtual]

11.126.2.4 "!CWarnerValveControllerDeviceTesterFunctionNet() !CWarnerValveControllerDeviceTesterFunctionNet() |
```

11.126.3 Member Function Documentation

```
11.126.3.1 GetIO() uint32_t GetIO ()
```

Gets the output from the io ports

Returns

The manual valves states

```
11.126.3.2 GetSync() uint32_t GetSync ()
```

Gets the output from the sync port

Returns

The sync state

```
11.126.3.3 SetADC() void SetADC ( uint32_t onoff )
```

Sets the ADC port of the tester

Parameters

onoff The port state

```
11.126.3.4 SetIO() void SetIO ( uint32_t io )
```

Sets the input to the io ports

Parameters

io The manual valves states

11.126.3.5 SetIODirection() void SetIODirection (int32_t direction)

Sets the direction of the IO test ports

Parameters

direction The 16bit direction map: 1=IN 0=OUT

Sets the input to the trigger port

Parameters

trigger The trigger state

11.126.3.7 SetTriggerSyncDirection() void SetTriggerSyncDirection (uint32_t direction)

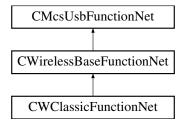
Sets the direction of the trigger/sync test port

Parameters

direction The direction: 1=IN 0=OUT

11.127 CWClassicFunctionNet Class Reference

Inheritance diagram for CWClassicFunctionNet:



Public Member Functions

- CWClassicFunctionNet (CMcsUsbNet[∧] mcsusb, CMcsUsbFunctionPointerContainer[∧] wClassicFuntion
 — PointerContainer)
- CWClassicFunctionNet (CMcsUsbNet[^] mcsusb)
- uint32 t ResetChannelmap (unsigned int virtualDevice)
- uint32_t SetChannelmap (unsigned char position, unsigned char channel, unsigned int Device)
- void SetHWSelectedChannels (array< bool >^ channels, unsigned int Device)
- void SetRFLostBehaviour (uint8_t stoponfailure, unsigned int Device)
- void SetHeadstageOnOff (uint16 t onoff)
- USHORT GetHeadstageOnOff ()
- void SetRFFrequencyHeadstage (uint8_t receiver_nb, unsigned short frequency)
- unsigned short GetRFFrequencyHeadstage (uint8_t receiver_nb)
- void SetRFFrequencyReceiver (uint8 t receiver nb, uint8 t configuration, unsigned short frequency)
- void SetRFFrequencyReceiverEeprom (uint8 t receiver nb, uint8 t configuration, unsigned short frequency)
- unsigned short GetRFFrequencyReceiver (uint8_t receiver_nb, uint8_t configuration)
- void SetSerialNumberHeadstage (unsigned short number)
- unsigned short GetSerialNumberHeadstage ()
- void SetSelectedHeadstage (uint8_t number)
- uint8_t GetSelectedHeadstage ()
- void ScanForHeadstages ()
- uint8_t GetScanHeadstagesResult (int max_wait_for_ms)
- void SetFilterParametersHeadstage (unsigned short index, array< int >^ buffer)
- array< int > ^ GetFilterParametersHeadstage (unsigned short index)
- bool GetHasRedLedHeadstage ()
- void SetHasChecksum (unsigned int has, unsigned int Device)
- unsigned int GetHasChecksum (unsigned int Device)
- void SetResetFilter (unsigned int reset, unsigned int Device)
- unsigned int GetResetFilter (unsigned int Device)
- · void SetWPAType (unsigned short type, unsigned int Device)
- unsigned short GetWPAType (unsigned int Device)
- void SetWPADebugMode (unsigned int mode, unsigned int Device)
- unsigned int GetWPADebugMode (unsigned int Device)
- void SetRFPower (unsigned short power)
- unsigned short GetRFPower ()
- unsigned int GetRFConnectionStatus ()

Additional Inherited Members

11.127.1 Constructor & Destructor Documentation

```
11.127.1.1 CWClassicFunctionNet() [1/2] CWClassicFunctionNet (
              CMcsUsbNet^ mcsusb,
              {\tt CMcsUsbFunctionPointerContainer}^{\land} \ \textit{wClassicFuntionPointerContainer} \ )
11.127.1.2 CWClassicFunctionNet() [2/2] CWClassicFunctionNet (
              CMcsUsbNet^ mcsusb )
11.127.2 Member Function Documentation
11.127.2.1 GetFilterParametersHeadstage() array<int> ^ GetFilterParametersHeadstage (
              unsigned short index )
11.127.2.2 GetHasChecksum() unsigned int GetHasChecksum (
              unsigned int Device )
\textbf{11.127.2.3} \quad \textbf{GetHasRedLedHeadstage()} \quad \texttt{bool GetHasRedLedHeadstage ()} \\
11.127.2.4 GetHeadstageOnOff() USHORT GetHeadstageOnOff ()
\textbf{11.127.2.5} \quad \textbf{GetResetFilter()} \quad \texttt{unsigned int GetResetFilter ()}
              unsigned int Device )
11.127.2.6 GetRFConnectionStatus() unsigned int GetRFConnectionStatus ( )
11.127.2.7 GetRFFrequencyHeadstage() unsigned short GetRFFrequencyHeadstage (
              uint8_t receiver_nb )
```

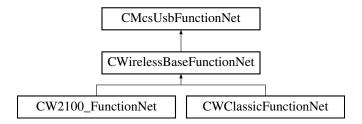
```
11.127.2.8 GetRFFrequencyReceiver() unsigned short GetRFFrequencyReceiver (
            uint8_t receiver_nb,
            uint8_t configuration )
11.127.2.9 GetRFPower() unsigned short GetRFPower ( )
11.127.2.10 GetScanHeadstagesResult() uint8_t GetScanHeadstagesResult (
            int max_wait_for_ms )
11.127.2.11 GetSelectedHeadstage() uint8_t GetSelectedHeadstage ( )
11.127.2.12 GetSerialNumberHeadstage() unsigned short GetSerialNumberHeadstage ( )
11.127.2.13 GetWPADebugMode() unsigned int GetWPADebugMode (
            unsigned int Device )
11.127.2.14 GetWPAType() unsigned short GetWPAType (
            unsigned int Device )
11.127.2.15 ResetChannelmap() uint32_t ResetChannelmap (
            unsigned int virtualDevice )
11.127.2.16 ScanForHeadstages() void ScanForHeadstages ()
11.127.2.17 SetChannelmap() uint32_t SetChannelmap (
            unsigned char position,
            unsigned char channel,
            unsigned int Device )
```

```
11.127.2.18 SetFilterParametersHeadstage() void SetFilterParametersHeadstage (
              unsigned short index,
              array< int >^{\land} buffer )
11.127.2.19 SetHasChecksum() void SetHasChecksum (
              unsigned int has,
              unsigned int Device )
11.127.2.20 SetHeadstageOnOff() void SetHeadstageOnOff (
              uint16_t onoff )
11.127.2.21 SetHWSelectedChannels() void SetHWSelectedChannels (
              array< bool >^{\wedge} channels,
              unsigned int Device )
11.127.2.22 SetResetFilter() void SetResetFilter (
              unsigned int reset,
              unsigned int Device )
\textbf{11.127.2.23} \quad \textbf{SetRFF} \textbf{requencyHeadstage()} \quad \textbf{void SetRFF} \textbf{requencyHeadstage ()}
              uint8_t receiver_nb,
              unsigned short frequency )
11.127.2.24 SetRFFrequencyReceiver() void SetRFFrequencyReceiver (
              uint8_t receiver_nb,
              uint8_t configuration,
              unsigned short frequency )
11.127.2.25 SetRFFrequencyReceiverEeprom() void SetRFFrequencyReceiverEeprom (
              uint8_t receiver_nb,
              uint8_t configuration,
              unsigned short frequency )
```

```
11.127.2.26 SetRFLostBehaviour() void SetRFLostBehaviour (
            uint8_t stoponfailure,
             unsigned int Device )
11.127.2.27 SetRFPower() void SetRFPower (
             unsigned short power )
11.127.2.28 SetSelectedHeadstage() void SetSelectedHeadstage (
            uint8_t number )
11.127.2.29 SetSerialNumberHeadstage() void SetSerialNumberHeadstage (
             unsigned short number )
11.127.2.30 SetWPADebugMode() void SetWPADebugMode (
             unsigned int mode,
             unsigned int Device )
11.127.2.31 SetWPAType() void SetWPAType (
             unsigned short type,
             unsigned int Device )
```

11.128 CWirelessBaseFunctionNet Class Reference

Inheritance diagram for CWirelessBaseFunctionNet:



Public Member Functions

• CWirelessBaseFunctionNet (CMcsUsbNet^ mcsusb, CMcsUsbFunctionPointerContainer^ mcsusbfunction)

Static Public Member Functions

• static String ^ CreateWirelessHeadstageSerialNumberString (unsigned short ID)

Additional Inherited Members

11.128.1 Constructor & Destructor Documentation

11.128.2 Member Function Documentation

11.129 DeviceIdNet Struct Reference

Device Id.

Public Member Functions

- DeviceIdNet ()
- DeviceIdNet (VendorIdEnumNet vendor, ProductIdEnumNet product, int bcd, McsBusTypeEnumNet bustype)
- DeviceIdNet (DeviceIdNet% deviceId)
- DeviceIdNet operator= (DeviceIdNet% deviceId)

Public Attributes

- VendorldEnumNet IdVendor
- ProductIdEnumNet IdProduct
- int BcdDevice
- McsBusTypeEnumNet BusType

11.129.1 Detailed Description

Device Id.

11.129.2 Constructor & Destructor Documentation

```
11.129.2.2 DeviceIdNet() [2/3] DeviceIdNet (
```

 $\textbf{11.129.2.1} \quad \textbf{DeviceIdNet()} \; \texttt{[1/3]} \quad \texttt{DeviceIdNet ()}$

VendorIdEnumNet vendor,
ProductIdEnumNet product,
int bcd,
McsBusTypeEnumNet bustype)

11.129.2.3 DeviceIdNet() [3/3] DeviceIdNet (

DeviceIdNet% deviceId)

11.129.3 Member Function Documentation

11.129.4 Member Data Documentation

11.129.4.1 BcdDevice int BcdDevice

11.129.4.2 BusType McsBusTypeEnumNet BusType

11.129.4.3 IdProduct ProductIdEnumNet IdProduct

11.129.4.4 IdVendor VendorIdEnumNet IdVendor

11.130 DigitalSource< digitalsourceenum > Class Template Reference

Public Member Functions

- DigitalSource ()
- DigitalSource (digitalsourceenum source)
- int MaxBitNumber ()
- int MaxBitNumber (digitalsourceenum Source)

Static Public Member Functions

- static int MaxBitNumberStatic (digitalsourceenum Source)
- static int size ()

Properties

• digitalsourceenum Source [get, set]

11.130.1 Constructor & Destructor Documentation

```
11.130.1.1 DigitalSource() [1/2] DigitalSource ( )
```

```
11.130.1.2 DigitalSource() [2/2] DigitalSource (
digitalsourceenum source)
```

11.130.2 Member Function Documentation

```
11.130.2.1 MaxBitNumber() [1/2] int MaxBitNumber ( )
```

```
11.130.2.2 MaxBitNumber() [2/2] int MaxBitNumber (
digitalsourceenum Source)
```

```
11.130.2.3 MaxBitNumberStatic() static int MaxBitNumberStatic (
digitalsourceenum Source) [static]
```

```
11.130.2.4 size() static int size () [static]
```

11.130.3 Property Documentation

```
11.130.3.1 Source digitalsourceenum Source [get], [set]
```

11.131 DigitalSourceGeneral Class Reference

Public Member Functions

- DigitalSourceGeneral (Type[^] type)
- DigitalSourceGeneral (Type[^] type, int Source)
- int MaxBitNumber ()
- int MaxBitNumber (int Source)

Static Public Member Functions

- static int MaxBitNumber (Type[^] type, int Source)
- static int size (Type[^] type)

Properties

```
• int Source [get, set]
```

11.131.1 Constructor & Destructor Documentation

```
11.131.1.1 DigitalSourceGeneral() [1/2] DigitalSourceGeneral ( Type^{ \wedge} type )
```

```
11.131.1.2 DigitalSourceGeneral() [2/2] DigitalSourceGeneral ( Type^{\wedge} type, int Source )
```

11.131.2 Member Function Documentation

```
11.131.2.1 MaxBitNumber() [1/3] int MaxBitNumber ( )
11.131.2.2 MaxBitNumber() [2/3] int MaxBitNumber (
             int Source )
11.131.2.3 MaxBitNumber() [3/3] static int MaxBitNumber (
             Type^{\wedge} type,
             int Source ) [static]
11.131.2.4 size() static int size (
             Type^ type ) [static]
11.131.3 Property Documentation
```

```
11.131.3.1 Source int Source [get], [set]
```

11.132 DriverVersionNet Class Reference

Class gives firmware versions of the device's firmware destinations.

Public Member Functions

• DriverVersionNet ()

Contructor.

∼DriverVersionNet ()

unsigned int GetStatus (CFirmwareDestinationNet dest)

Get status of firmware destination.

• unsigned int GetStatus (unsigned int index)

Get status of firmware destination.

unsigned int GetVersionInt (CFirmwareDestinationNet dest)

Get the version number of firmware destination (major in high word, minor in low word)

• unsigned int GetVersionInt (unsigned int index)

Get the version number of firmware destination (major in high word, minor in low word)

unsigned int GetMajor (CFirmwareDestinationNet dest)

Get the major version number of firmware destination.

unsigned int GetMajor (unsigned int index)

Get the major version number of firmware destination.

unsigned int GetMinor (CFirmwareDestinationNet dest)

Get the minor version number of firmware destination.

unsigned int GetMinor (unsigned int index)

Get the minor version number of firmware destination.

• unsigned int GetNumEntries ()

Get the number of available firmware destinations.

String \(^\) GetVersionString (CFirmwareDestinationNet dest)

Get the version as a string in the format Major. Minor.

String \(^\) GetVersionString (unsigned int index)

Get the version as a string in the format Major. Minor.

CFirmwareDestinationNet GetDestinationCode (unsigned int index)

Get CFirmwareDestinationNet.

String \(^\) GetDestinationName (CFirmwareDestinationNet dest)

Get firmware destination name.

String \(^\) GetDestinationName (unsigned int index)

Get firmware destination name.

String [^] GetSerialNumber (CFirmwareDestinationNet dest)

Get the serial number of the destination, when no serial number if found, return an empty string.

String \(^\) GetSerialNumber (unsigned int index)

Get the serial number of the destination, when no serial number if found, return an empty string.

Static Public Member Functions

static String ^ DriverVersionNet::FormatVersion (unsigned int v)

11.132.1 Detailed Description

Class gives firmware versions of the device's firmware destinations.

11.132.2 Constructor & Destructor Documentation

```
11.132.2.1 DriverVersionNet() DriverVersionNet ( )
```

Contructor.

11.132.2.2 ~DriverVersionNet() ~DriverVersionNet ()

Destructor.

11.132.3 Member Function Documentation

```
11.132.3.1 DriverVersionNet::FormatVersion() static String ^{\circ} DriverVersionNet::FormatVersion (unsigned int v) [static]
```

```
11.132.3.2 GetDestinationCode() CFirmwareDestinationNet GetDestinationCode ( unsigned int index )
```

Get CFirmwareDestinationNet.

Parameters

index by index of firmware destination

11.132.3.3 **GetDestinationName()** [1/2] String ^ GetDestinationName (CFirmwareDestinationNet *dest*)

Get firmware destination name.

Parameters

dest by CFirmwareDestionationNet

11.132.3.4 GetDestinationName() [2/2] String $^{\land}$ GetDestinationName (unsigned int index)

Get firmware destination name.

Parameters

index by index of firmware destination

11.132.3.5 **GetMajor()** [1/2] unsigned int GetMajor (CFirmwareDestinationNet dest)

Get the major version number of firmware destination.

Parameters

dest by CFirmwareDestionationNet

11.132.3.6 **GetMajor()** [2/2] unsigned int GetMajor (unsigned int *index*)

Get the major version number of firmware destination.

Parameters

index	by index of firmware destination

```
11.132.3.7 GetMinor() [1/2] unsigned int GetMinor (
CFirmwareDestinationNet dest)
```

Get the minor version number of firmware destination.

Parameters

```
dest by CFirmwareDestionationNet
```

```
11.132.3.8 GetMinor() [2/2] unsigned int GetMinor ( unsigned int index )
```

Get the minor version number of firmware destination.

Parameters

index	by index of firmware destination
-------	----------------------------------

11.132.3.9 GetNumEntries() unsigned int GetNumEntries ()

Get the number of available firmware destinations.

```
11.132.3.10 GetSerialNumber() [1/2] String ^{\land} GetSerialNumber ( CFirmwareDestinationNet dest )
```

Get the serial number of the destination, when no serial number if found, return an empty string.

Parameters

```
dest by CFirmwareDestionationNet
```

```
11.132.3.11 GetSerialNumber() [2/2] String ^{\land} GetSerialNumber ( unsigned int index )
```

Get the serial number of the destination, when no serial number if found, return an empty string.

Parameters

index by index of firmware destination

11.132.3.12 **GetStatus()** [1/2] unsigned int GetStatus (CFirmwareDestinationNet dest)

Get status of firmware destination.

Parameters

dest by CFirmwareDestionationNet

11.132.3.13 GetStatus() [2/2] unsigned int GetStatus (unsigned int index)

Get status of firmware destination.

Parameters

index by index of firmware destination

11.132.3.14 GetVersionInt() [1/2] unsigned int GetVersionInt (CFirmwareDestinationNet dest)

Get the version number of firmware destination (major in high word, minor in low word)

Parameters

dest by CFirmwareDestionationNet

11.132.3.15 GetVersionInt() [2/2] unsigned int GetVersionInt (unsigned int index)

Get the version number of firmware destination (major in high word, minor in low word)

Parameters

index by index of firmware destination

```
11.132.3.16 GetVersionString() [1/2] String ^ GetVersionString (
CFirmwareDestinationNet dest)
```

Get the version as a string in the format Major. Minor.

Parameters

```
dest by CFirmwareDestionationNet
```

```
11.132.3.17 GetVersionString() [2/2] String ^{\land} GetVersionString ( unsigned int index )
```

Get the version as a string in the format Major. Minor.

Parameters

index by index of firmware

11.133 FirmwareDestinationNames Class Reference

Static Public Attributes

```
    static String \(^\text{DSP} = \text{gcnew String("DSP")}\)

    static String \(^{\text{USB}} = \text{gcnew String("USB")}\)

    static String \(^{\text{MCU1}} = \text{gcnew String("MCU1")}\)

    static String \(^\text{Bootstrap} = \text{gcnew String("Bootstrap")}\)

    static String \(^{\text{MCSBUS1}} = \text{gcnew String( "McsBus1" )}\)

    static String \(^{\text{MCSBUS2}} = \text{gcnew String( "McsBus2" )}\)

    static String \(^{\text{MCSBUS3}} = \text{gcnew String( "McsBus3" )}\)

    static String \(^\text{MCSBUS4} = \text{gcnew String( "McsBus4" )}\)

    static String \(^{\text{MCSBUS5}} = \text{gcnew String( "McsBus5" )}\)

• static String ^ MCSBUS6 = gcnew String( "McsBus6" )

    static String \(^{\text{MCSBUS7}} = \text{gcnew String( "McsBus7" )}\)

    static String \(^{\text{MCSBUS8}} = \text{gcnew String( "McsBus8" )}\)

    static String \(^{\text{MCSBUS9}} = \text{gcnew String( "McsBus9" )}\)

    static String \(^{\text{MCSBUS10}} = \text{gcnew String( "McsBus10" )}\)

    static String \(^\text{MCSBUS11} = \text{gcnew String("McsBus11")}\)

• static String ^ MCSBUS12 = gcnew String( "McsBus12" )

    static String \(^{\text{MCSBUS13}}\) = gcnew String( "McsBus13" )

    static String \(^\text{BUS1_MCSBUS1} = \text{gcnew String("Bus1McsBus1")}\)

    static String \(^\text{BUS1_MCSBUS2} = \text{gcnew String("Bus1McsBus2")}\)

    static String \(^\text{PIC} = \text{gcnew String("PIC")}\)

    static String \(^\text{PIC2} = \text{gcnew String("PIC2")}\)

    static String \(^\text{PIC3} = \text{gcnew String("PIC3")}\)

• static String ^{\wedge} PIC4 = gcnew String( "PIC4" )
```

```
    static String ^ Altera = gcnew String( "Altera")
    static String ^ FPGA2 = gcnew String( "FPGA2")
    static String ^ FPGA3 = gcnew String( "FPGA3")
    static String ^ FPGA4 = gcnew String( "FPGA4")
    static String ^ FPGA5 = gcnew String( "FPGA5")
    static String ^ FPGA6 = gcnew String( "FPGA6")
```

11.133.1 Member Data Documentation

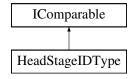
```
11.133.1.1 Altera String ^ Altera = gcnew String( "Altera" ) [static]
11.133.1.2 Bootstrap String ^ Bootstrap = gcnew String( "Bootstrap") [static]
11.133.1.3 BUS1_MCSBUS1 String ^ BUS1_MCSBUS1 = gcnew String( "BuslMcsBus1" ) [static]
11.133.1.4 BUS1 MCSBUS2 String ^ BUS1_MCSBUS2 = gcnew String( "Bus1McsBus2" ) [static]
11.133.1.5 DSP String ^ DSP = gcnew String( "DSP" ) [static]
11.133.1.6 FPGA2 String ^ FPGA2 = gcnew String( "FPGA2" ) [static]
11.133.1.7 FPGA3 String ^ FPGA3 = gcnew String( "FPGA3" ) [static]
11.133.1.8 FPGA4 String ^ FPGA4 = gcnew String( "FPGA4" ) [static]
11.133.1.9 FPGA5 String ^ FPGA5 = gcnew String( "FPGA5" ) [static]
```

```
11.133.1.10 FPGA6 String ^ FPGA6 = gcnew String( "FPGA6" ) [static]
11.133.1.11 MCSBUS1 String ^{\wedge} MCSBUS1 = gcnew String( "McsBus1" ) [static]
11.133.1.12 MCSBUS10 String ^ MCSBUS10 = gcnew String( "McsBus10" ) [static]
11.133.1.13 MCSBUS11 String ^ MCSBUS11 = gcnew String( "McsBus11" ) [static]
11.133.1.14 MCSBUS12 String ^{\wedge} MCSBUS12 = gcnew String( "McsBus12" ) [static]
11.133.1.15 MCSBUS13 String ^ MCSBUS13 = gcnew String( "McsBus13" ) [static]
11.133.1.16 MCSBUS2 String ^ MCSBUS2 = gcnew String( "McsBus2" ) [static]
11.133.1.17 MCSBUS3 String ^{\land} MCSBUS3 = gcnew String( "McsBus3" ) [static]
11.133.1.18 MCSBUS4 String ^ MCSBUS4 = gcnew String( "McsBus4" ) [static]
11.133.1.19 MCSBUS5 String ^ MCSBUS5 = gcnew String( "McsBus5" ) [static]
11.133.1.20 MCSBUS6 String ^ MCSBUS6 = gcnew String( "McsBus6" ) [static]
```

```
11.133.1.21 MCSBUS7 String ^ MCSBUS7 = gcnew String( "McsBus7") [static]
11.133.1.22 MCSBUS8 String ^ MCSBUS8 = gcnew String( "McsBus8" ) [static]
11.133.1.23 MCSBUS9 String ^ MCSBUS9 = gcnew String( "McsBus9" ) [static]
11.133.1.24 MCU1 String ^ MCU1 = gcnew String( "MCU1" ) [static]
11.133.1.25 PIC String ^{\wedge} PIC = gcnew String( "PIC" ) [static]
11.133.1.26 PIC2 String ^ PIC2 = gcnew String( "PIC2" ) [static]
11.133.1.27 PIC3 String ^ PIC3 = gcnew String( "PIC3" ) [static]
11.133.1.28 PIC4 String ^ PIC4 = gcnew String( "PIC4" ) [static]
11.133.1.29 USB String ^{\land} USB = gcnew String( "USB" ) [static]
```

11.134 HeadStageIDType Class Reference

Inheritance diagram for HeadStageIDType:



Public Types

enum class HeadstageTypeEnum {
 Unknown ,
 MeasuringOnly ,
 OpticalStimulation ,
 ElectricalStimulation }

Public Member Functions

- HeadStageIDType (unsigned int entry, CW2100 FunctionNet[^] device)
- virtual System::String ^ ToString () override
- virtual bool Equals (Object[^] obj) override
- virtual Int32 CompareTo (Object[^] obj)

Properties

- bool Valid [get]
- unsigned int Entry [get]
- unsigned short ID [get]
- System::String SN [get]
- unsigned int TypeValue [get]
- System::String Type [get]
- HeadstageTypeEnum HeadstageType [get]
- System::String UserDefinedName [get]
- int NumberOfAnalogChannels [get]
- int NumberOfStimulationChannels [get]
- W2100_StimulusParametersNet^ StimulusParameters [get]
- bool HasIMU [get]
- bool W16lsW14 [get]
- bool HasOptoCurrentMessurement [get]

11.134.1 Member Enumeration Documentation

11.134.1.1 HeadstageTypeEnum enum HeadstageTypeEnum [strong]

Enumerator

Unknown	
MeasuringOnly	
OpticalStimulation	
ElectricalStimulation	

11.134.2 Constructor & Destructor Documentation

```
11.134.2.1 HeadStageIDType() HeadStageIDType (
            unsigned int entry,
            CW2100_FunctionNet^ device )
11.134.3 Member Function Documentation
11.134.3.1 CompareTo() virtual Int32 CompareTo (
            Object^ obj ) [virtual]
11.134.3.2 Equals() virtual bool Equals (
            Object^ obj ) [override], [virtual]
11.134.3.3 ToString() virtual System::String ^ ToString ( ) [override], [virtual]
11.134.4 Property Documentation
11.134.4.1 Entry unsigned int Entry [get]
11.134.4.2 HasIMU bool HasIMU [get]
11.134.4.3 HasOptoCurrentMessurement bool HasOptoCurrentMessurement [get]
11.134.4.4 HeadstageType HeadstageTypeEnum HeadstageType [get]
11.134.4.5 ID unsigned short ID [get]
```

```
11.134.4.6 NumberOfAnalogChannels int NumberOfAnalogChannels [get]
11.134.4.7 NumberOfStimulationChannels int NumberOfStimulationChannels [get]
11.134.4.8 SN System:: String SN [get]
11.134.4.9 StimulusParameters W2100_StimulusParametersNet^ StimulusParameters [get]
11.134.4.10 Type System:: String^{\wedge} Type [get]
11.134.4.11 TypeValue unsigned int TypeValue [get]
11.134.4.12 UserDefinedName System:: String^ UserDefinedName [get]
11.134.4.13 Valid bool Valid [get]
11.134.4.14 W16IsW14 bool W16IsW14 [get]
11.135 HeadstageIDTypeObject Class Reference
```

Public Member Functions

- HeadstageIDTypeObject (HeadStageIDType^ idType)
- virtual String ^ ToString () override
- virtual bool Equals (Object $^{\wedge}$ obj) override
- virtual int GetHashCode () override

Public Attributes

- HeadStageIDType ^ _ldType
- String ^ _AdditionalText

Properties

```
• HeadStageIDType^ IdType [get]
```

```
• String^ AdditionalText [get, set]
```

11.135.1 Constructor & Destructor Documentation

```
11.135.1.1 HeadstageIDTypeObject() HeadstageIDTypeObject ( HeadStageIDType^ idType )
```

11.135.2 Member Function Documentation

```
11.135.2.1 Equals() virtual bool Equals (
          Object^ obj ) [override], [virtual]
```

```
11.135.2.2 GetHashCode() virtual int GetHashCode ( ) [override], [virtual]
```

```
11.135.2.3 ToString() virtual String ^{\wedge} ToString ( ) [override], [virtual]
```

11.135.3 Member Data Documentation

```
\textbf{11.135.3.1} \quad \underline{\textbf{AdditionalText}} \quad \texttt{String} \; \wedge \; \underline{\textbf{AdditionalText}}
```

```
11.135.3.2 _ldType HeadStageIDType ^ _IdType
```

11.135.4 Property Documentation

```
\textbf{11.135.4.1} \quad \textbf{AdditionalText} \quad \texttt{String}^{\wedge} \; \texttt{AdditionalText} \quad \texttt{[get], [set]}
```

```
11.135.4.2 IdType HeadStageIDType^ IdType [get]
```

11.136 HeadStageIDTypeState Class Reference

Properties

- unsigned int State [get]
- HeadStageIDType^ IdType [get]
- bool ControlState [get]
- bool DataState [get]

11.136.1 Property Documentation

```
11.136.1.1 ControlState bool ControlState [get]
```

11.136.1.2 DataState bool DataState [get]

11.136.1.3 IdType HeadStageIDType^ IdType [get]

11.136.1.4 State unsigned int State [get]

11.137 mkfilterNet Class Reference

Static Public Member Functions

- static int mkfilter (String[^] filtertype, double value, String[^] passtype, int order, double alpha1, double alpha2, [System::Runtime::InteropServices::Out] array< double >[^]% xcoeffs, [System::Runtime::InteropServices...Out] array< double >[^]% ycoeffs)
- static int mkfilter_MCS (int SamplesPerSecond, double R1, double R2, double C, double Amplification, double Correction, [System::Runtime::InteropServices::Out] array< double >^% xcoeffs, [System::Runtime::
 InteropServices::Out] array< double >^% ycoeffs)
- static int mkfilter_MCS (int SamplesPerSecond, double R1, double R2, double C, double Correction, [System::Runtime::InteropServices::Out] array< double >^% xcoeffs, [System::Runtime::InteropServices::Out] array< double >^% ycoeffs)
- static int mkfilter_MCS_k (int SamplesPerSecond, double R1, double R2, double C, double Amplification, double Correction, [System::Runtime::InteropServices::Out] array< double >^% coeffs)
- static int mkfilter_MCS_k (int SamplesPerSecond, double R1, double R2, double C, double Correction, [System::Runtime::InteropServices::Out] array< double >^% coeffs)
- static void mkfilter_coef_in_one_set (int n, [System::Runtime::InteropServices::In] array< double >^ xcoeffs, [System::Runtime::InteropServices::Out] array< double >^% out_coeffs)
- static void mkfilter_scale_coef_in_one_set (int n, double scale, [System::Runtime::InteropServices::In] array< double >^ xcoeffs, [System::Runtime::InteropServices::In] array< double >^ ycoeffs, [System::

 Runtime::InteropServices::Out] array< double >^% out_coeffs)
- static void mkfilter_normalize_coeffs_short (short maxvalue, [System::Runtime::InteropServices::In] array
 double >^ coeffs, [System::Runtime::InteropServices::Out] array< short >^% out_coeffs)
- static void mkfilter_normalize_coeffs_int (int maxvalue, [System::Runtime::InteropServices::In] array< double
 ^ coeffs, [System::Runtime::InteropServices::Out] array< int >^% out_coeffs)
- static void mkfilter_normalize_scale_coeffs_int (int maxvalue, [System::Runtime::InteropServices::In] array
 double >^ coeffs, [System::Runtime::InteropServices::Out] array< int >^% out_coeffs)
- static double mkfilter_highpass_coeff (int SamplesPerSecond, double Frequency)
- static double mkfilter_highpass_k (int SamplesPerSecond, double Frequency)
- static double mkfilter_highpass_frequency_from_coeff (int SamplesPerSecond, double coeff)
- static double mkfilter_highpass_frequency_from_k (int SamplesPerSecond, double k)

11.137.1 Member Function Documentation

```
11.137.1.2 mkfilter_coef_in_one_set() static void mkfilter_coef_in_one_set (
             int n_{i}
             [System::Runtime::InteropServices::In] array< double >^{\wedge} xcoeffs,
             [System::Runtime::InteropServices::In] array< double >^{\wedge} ycoeffs,
             [System::Runtime::InteropServices::Out] array< double >^{\%} out_coeffs ) [static]
11.137.1.3 mkfilter_highpass_coeff() static double mkfilter_highpass_coeff (
             int SamplesPerSecond,
             double Frequency ) [static]
11.137.1.4 mkfilter_highpass_frequency_from_coeff() static double mkfilter_highpass_frequency_←
from coeff (
             int SamplesPerSecond,
             double coeff ) [static]
11.137.1.5 mkfilter highpass frequency from k() static double mkfilter_highpass_frequency_from ↔
_k (
             int SamplesPerSecond,
             double k ) [static]
11.137.1.6 mkfilter_highpass_k() static double mkfilter_highpass_k (
             int SamplesPerSecond,
             double Frequency ) [static]
11.137.1.7 mkfilter_MCS() [1/2] static int mkfilter_MCS (
             int SamplesPerSecond,
             double R1,
             double R2,
             double C,
             double Amplification,
             double Correction,
             [System::Runtime::InteropServices::Out] array< double >^{\%} xcoeffs,
             [System::Runtime::InteropServices::Out] array< double >^% ycoeffs ) [static]
11.137.1.8 mkfilter_MCS() [2/2] static int mkfilter_MCS (
             int SamplesPerSecond,
             double R1,
             double R2,
             double C_{\prime}
             double Correction,
             [System::Runtime::InteropServices::Out] array< double >^{\%} xcoeffs,
             [System::Runtime::InteropServices::Out] array<br/> double >^{\%} ycoeffs ) [static]
```

```
11.137.1.9 mkfilter_MCS_k() [1/2] static int mkfilter_MCS_k (
             int SamplesPerSecond,
             double R1,
             double R2,
             double C,
             double Amplification,
             double Correction,
              [System::Runtime::InteropServices::Out] array< double >^{\%} coeffs ) [static]
11.137.1.10 mkfilter_MCS_k() [2/2] static int mkfilter_MCS_k (
             int SamplesPerSecond,
             double R1.
             double R2,
             double C,
             double Correction,
             [System::Runtime::InteropServices::Out] array< double >^{\%} coeffs ) [static]
11.137.1.11 mkfilter_normalize_coeffs_int() static void mkfilter_normalize_coeffs_int (
             int maxvalue,
              [System::Runtime::InteropServices::In] array< double >^{\wedge} coeffs,
              [System::Runtime::InteropServices::Out] array< int >^{\%} out_coeffs ) [static]
11.137.1.12 mkfilter_normalize_coeffs_short() static void mkfilter_normalize_coeffs_short (
             short maxvalue,
              [System::Runtime::InteropServices::In] array< double >^{\land} coeffs,
              [System::Runtime::InteropServices::Out] array< short >^{\%} out_coeffs ) [static]
11.137.1.13 mkfilter_normalize_scale_coeffs_int() static void mkfilter_normalize_scale_coeffs_int
              int maxvalue,
              [System::Runtime::InteropServices::In] array< double >^{\land} coeffs,
               [System::Runtime::InteropServices::Out] \ array< int > ^\$ \ out\_coeffs \ ) \ [static] 
11.137.1.14 mkfilter_scale_coef_in_one_set() static void mkfilter_scale_coef_in_one_set (
              int n,
             double scale,
             [System::Runtime::InteropServices::In] array< double >^{\wedge} xcoeffs,
              [System::Runtime::InteropServices::In] array< double >^{\wedge} ycoeffs,
              [System::Runtime::InteropServices::Out] \ array< \ double > ^ {\$} \ out\_coeffs \ ) \ [static]
```

11.138 CRoboDeviceNet::RoboMainLowLevelCommands Class Reference

Public Member Functions

- · void SetParameter (unsigned short command, unsigned short index, unsigned int value)
- void SetParameter (unsigned short command, unsigned short index, unsigned int value1, unsigned int value2)
- void SetUserParameter (unsigned short index, unsigned int value)

Stores persistently 32 bit integer values on RoboMain

void SetUserParameter (unsigned short index, int value)

Stores persistently 32 bit integer values on RoboMain

- void GetParameter (unsigned short command, unsigned short index, [System::Runtime::InteropServices::
 — Out]unsigned int% value)
- void GetParameter (unsigned short command, unsigned short index, [System::Runtime::InteropServices::
 Out]unsigned int% value1, [System::Runtime::InteropServices::Out]unsigned int% value2)
- void GetUserParameter (unsigned short index, [System::Runtime::InteropServices::Out]unsigned int% value)

Reads 32 bit integer values stored persistently on RoboMain

void GetUserParameter (unsigned short index, [System::Runtime::InteropServices::Out]int% value)

Reads 32 bit integer values stored persistently on RoboMain

- void FindReferencePhase0 (unsigned char busaddress, char axes)
- · void FindReferencePhase0 (unsigned char busaddress, char axes, int timeout)
- unsigned char HasRef (unsigned char busaddress, char axes)
- void SetHWRevision (unsigned int revision)
- unsigned int GetHWRevision ()
- · void SetHWConfig (unsigned int config)
- unsigned int GetHWConfig ()
- void SetMinPressureWaitTime (unsigned int t)
- unsigned int GetMinPressureWaitTime ()
- void SetMinPressure (unsigned int pressure)
- unsigned int GetMinPressure ()
- void SetMaxPressureWaitTime (unsigned int t)
- unsigned int GetMaxPressureWaitTime ()
- void SetMinNoPressureWaitTime (unsigned int t)
- unsigned int GetMinNoPressureWaitTime ()
- void SetMaxNoPressure (unsigned int pressure)
- unsigned int GetMaxNoPressure ()
- void SetMaxNoPressureWaitTime (unsigned int t)
- unsigned int GetMaxNoPressureWaitTime ()
- · void SetSearchReferenceMethod (unsigned char busaddress, char axes, unsigned int method)
- unsigned int GetSearchReferenceMethod (unsigned char busaddress, char axes)
- void SetSearchReferenceOffsetPos (unsigned char busaddress, char axes, int offsetpos)
- int GetSearchReferenceOffsetPos (unsigned char busaddress, char axes)
- void SetSearchReferenceFastSpeed (unsigned char busaddress, char axes, unsigned short speed)
- unsigned short GetSearchReferenceFastSpeed (unsigned char busaddress, char axes)
- · void SetSearchReferenceFastAccel (unsigned char busaddress, char axes, unsigned short accel)
- unsigned short GetSearchReferenceFastAccel (unsigned char busaddress, char axes)
- void SetSearchReferenceFineSpeed (unsigned char busaddress, char axes, unsigned short speed)
- unsigned short GetSearchReferenceFineSpeed (unsigned char busaddress, char axes)
- · void SetSearchReferenceFineAccel (unsigned char busaddress, char axes, unsigned short accel)
- unsigned short GetSearchReferenceFineAccel (unsigned char busaddress, char axes)
- void SetSearchReferenceMoveOut (unsigned char busaddress, char axes, int move)
- int GetSearchReferenceMoveOut (unsigned char busaddress, char axes)
- void SetAxisConfig (unsigned char busaddress, char axes, unsigned int config)
- unsigned int GetAxisConfig (unsigned char busaddress, char axes)
- void GetPhases (unsigned char busaddress, char axes, [System::Runtime::InteropServices::Out] unsigned short% phase0, [System::Runtime::InteropServices::Out] unsigned short% lastphase)

11.138.1 Member Function Documentation

```
11.138.1.1 FindReferencePhaseO() [1/2] void FindReferencePhaseO (
             unsigned char busaddress,
             char axes )
\textbf{11.138.1.2} \quad \textbf{FindReferencePhase0() [2/2]} \quad \texttt{void FindReferencePhase0} \quad \textbf{(}
             unsigned char busaddress,
             char axes,
             int timeout )
11.138.1.3 GetAxisConfig() unsigned int GetAxisConfig (
             unsigned char busaddress,
             char axes )
11.138.1.4 GetHWConfig() unsigned int GetHWConfig ( )
11.138.1.5 GetHWRevision() unsigned int GetHWRevision ()
11.138.1.6 GetMaxNoPressure() unsigned int GetMaxNoPressure ( )
11.138.1.7 GetMaxNoPressureWaitTime() unsigned int GetMaxNoPressureWaitTime ( )
11.138.1.8 GetMaxPressureWaitTime() unsigned int GetMaxPressureWaitTime ()
11.138.1.9 GetMinNoPressureWaitTime() unsigned int GetMinNoPressureWaitTime ( )
```

```
11.138.1.10 GetMinPressure() unsigned int GetMinPressure ( )
11.138.1.11 GetMinPressureWaitTime() unsigned int GetMinPressureWaitTime ( )
11.138.1.12 GetParameter() [1/2] void GetParameter (
             unsigned short command,
             unsigned short index,
             [System::Runtime::InteropServices::Out] unsigned int% value )
11.138.1.13 GetParameter() [2/2] void GetParameter (
             unsigned short command,
             unsigned short index,
             [System::Runtime::InteropServices::Out] unsigned int% value1,
             [System::Runtime::InteropServices::Out] unsigned int% value2 )
11.138.1.14 GetPhases() void GetPhases (
             unsigned char busaddress,
             char axes,
             [System::Runtime::InteropServices::Out] unsigned short% phase0,
             [System::Runtime::InteropServices::Out] unsigned short% lastphase )
11.138.1.15 GetSearchReferenceFastAccel() unsigned short GetSearchReferenceFastAccel (
             unsigned char busaddress,
             char axes )
11.138.1.16 GetSearchReferenceFastSpeed() unsigned short GetSearchReferenceFastSpeed (
             unsigned char busaddress,
             char axes )
\textbf{11.138.1.17} \quad \textbf{GetSearchReferenceFineAccel()} \quad \texttt{unsigned short GetSearchReferenceFineAccel ()}
             unsigned char busaddress,
             char axes )
```

Reads 32 bit integer values stored persistently on RoboMain

intention: provide free persistent user memory space on motor controller

Parameters

index	address offset of parameter; range: 015
value	data buffer

```
11.138.1.23 GetUserParameter() [2/2] void GetUserParameter (
unsigned short index,

[System::Runtime::InteropServices::Out] unsigned int% value )
```

[System::Runtime::InteropServices::Out] int% value)

Reads 32 bit integer values stored persistently on RoboMain

intention: provide free persistent user memory space on motor controller

Parameters

index	address offset of parameter; range: 015
value	data buffer

```
11.138.1.24 HasRef() unsigned char HasRef (
            unsigned char busaddress,
             char axes )
11.138.1.25 SetAxisConfig() void SetAxisConfig (
            unsigned char busaddress,
             char axes,
             unsigned int config )
11.138.1.26 SetHWConfig() void SetHWConfig (
            unsigned int config )
11.138.1.27 SetHWRevision() void SetHWRevision (
             unsigned int revision )
11.138.1.28 SetMaxNoPressure() void SetMaxNoPressure (
             unsigned int pressure )
11.138.1.29 SetMaxNoPressureWaitTime() void SetMaxNoPressureWaitTime (
             unsigned int t )
11.138.1.30 SetMaxPressureWaitTime() void SetMaxPressureWaitTime (
            unsigned int t )
11.138.1.31 SetMinNoPressureWaitTime() void SetMinNoPressureWaitTime (
            unsigned int t )
11.138.1.32 SetMinPressure() void SetMinPressure (
             unsigned int pressure )
```

```
11.138.1.33 SetMinPressureWaitTime() void SetMinPressureWaitTime (
             unsigned int t )
11.138.1.34 SetParameter() [1/2] void SetParameter (
             unsigned short command,
             unsigned short index,
             unsigned int value )
11.138.1.35 SetParameter() [2/2] void SetParameter (
             unsigned short command,
             unsigned short index,
             unsigned int value1,
             unsigned int value2 )
11.138.1.36 SetSearchReferenceFastAccel() void SetSearchReferenceFastAccel (
             unsigned char busaddress,
             char axes,
             unsigned short accel )
11.138.1.37 SetSearchReferenceFastSpeed() void SetSearchReferenceFastSpeed (
             unsigned char busaddress,
             char axes,
             unsigned short speed )
11.138.1.38 SetSearchReferenceFineAccel() void SetSearchReferenceFineAccel (
             unsigned char busaddress,
             char axes,
             unsigned short accel )
11.138.1.39 SetSearchReferenceFineSpeed() void SetSearchReferenceFineSpeed (
             unsigned char busaddress,
             char axes,
             unsigned short speed )
```

```
11.138.1.40 SetSearchReferenceMethod() void SetSearchReferenceMethod (
```

```
unsigned char busaddress,
char axes,
unsigned int method )
```

11.138.1.41 SetSearchReferenceMoveOut() void SetSearchReferenceMoveOut (

```
unsigned char busaddress,
char axes,
int move )
```

11.138.1.42 SetSearchReferenceOffsetPos() void SetSearchReferenceOffsetPos (

```
unsigned char busaddress,
char axes,
int offsetpos )
```

11.138.1.43 SetUserParameter() [1/2] void SetUserParameter (

```
unsigned short index,
int value )
```

Stores persistently 32 bit integer values on RoboMain

intention: provide free persistent user memory space on RoboMain

Parameters

index	address offset of parameter; range: 015
value	data to be stored

11.138.1.44 SetUserParameter() [2/2] void SetUserParameter (unsigned short index,

```
unsigned short index, unsigned int value)
```

Stores persistently 32 bit integer values on RoboMain

intention: provide free persistent user memory space on RoboMain

Parameters

index	address offset of parameter; range: 015
value	data to be stored

11.139 CRoboStatorDeviceNet::RoboMainStatorLowLevelCommands Class Reference

Public Member Functions

- void FindReferencePhase0XY ()
- void FindReferencePhase0XY (int timeout)

11.139.1 Member Function Documentation

```
11.139.1.1 FindReferencePhaseOXY() [1/2] void FindReferencePhaseOXY ( )
```

```
11.139.1.2 FindReferencePhaseOXY() [2/2] void FindReferencePhaseOXY ( int timeout )
```

11.140 CFilterCoefficientsNet::s_FilterAttributesNet Struct Reference

Public Member Functions

- s_FilterAttributesNet (s_FilterAttributes attrib)
- s_FilterAttributes ToCpp ()

Public Attributes

- uint32_t PreCommaB
- uint32 t PostCommaB
- uint32_t CommaPositionB
- uint32_t PreCommaA
- uint32_t PostCommaA
- uint32_t CommaPositionA

11.140.1 Constructor & Destructor Documentation

```
11.140.1.1 s_FilterAttributesNet() s_FilterAttributesNet( s_FilterAttributes attrib)
```

11.140.2 Member Function Documentation

```
11.140.2.1 ToCpp() s_FilterAttributes ToCpp ( )
11.140.3 Member Data Documentation
11.140.3.1 CommaPositionA uint32_t CommaPositionA
11.140.3.2 CommaPositionB uint32_t CommaPositionB
11.140.3.3 PostCommaA uint32_t PostCommaA
11.140.3.4 PostCommaB uint32_t PostCommaB
11.140.3.5 PreCommaA uint32_t PreCommaA
11.140.3.6 PreCommaB uint32_t PreCommaB
11.141 CMeaAudioFunctionNet::s_setaudionet Struct Reference
Public Attributes
   • int channel
   • int amplification
11.141.1 Member Data Documentation
11.141.1.1 amplification int amplification
```

```
11.141.1.2 channel int channel
```

11.142 CStimulusFunctionNet::SidebandData Class Reference

Public Member Functions

- SidebandData ()
- \sim SidebandData ()

Destructor: called by Dispose()

· !SidebandData ()

Finalizer: called by GC before collecting

Properties

```
• array< int32_t >^ Sideband [get]
```

• array< uint64_t >^ Duration [get]

11.142.1 Constructor & Destructor Documentation

```
11.142.1.1 SidebandData() SidebandData ()
```

```
11.142.1.2 ~SidebandData() ~SidebandData ()
```

Destructor: called by Dispose()

```
11.142.1.3 "!SidebandData() !SidebandData ()
```

Finalizer: called by GC before collecting

11.142.2 Property Documentation

```
11.142.2.1 Duration array< uint64_t>^{\wedge} Duration [get]
```

11.142.2.2 Sideband array< int32_t> $^{\land}$ Sideband [get]

11.143 StgStatusNet Class Reference

Static Public Member Functions

- static StgStatusNet ^ FromIntPtr (IntPtr stgstatus)
- static StgStatusNet ^ FromPtr (stgstatus_t *stgstatus)

Public Attributes

- array< Stg200xTriggerStatusEnumNet > ^ TiggerStatus
- array< uint32_t > ^ ListOfChangedTriggers

11.143.1 Member Function Documentation

```
11.143.1.2 FromPtr() static StgStatusNet ^ FromPtr (
    stgstatus_t * stgstatus ) [static]
```

11.143.2 Member Data Documentation

```
\textbf{11.143.2.1} \quad \textbf{ListOfChangedTriggers} \quad \texttt{array} < \texttt{uint32\_t} > \\ \land \quad \texttt{ListOfChangedTriggers}
```

```
11.143.2.2 TiggerStatus array<Stg200xTriggerStatusEnumNet> ^ TiggerStatus
```

11.144 CStimulusFunctionNet::StimulusDeviceDataAndUnrolledData Class Reference

Public Member Functions

- StimulusDeviceDataAndUnrolledData ()
- ~StimulusDeviceDataAndUnrolledData ()

Destructor: called by Dispose()

• !StimulusDeviceDataAndUnrolledData ()

Finalizer: called by GC before collecting

Properties

• array< uint8_t >^ DeviceData [get]

```
• int DeviceDataLength [get]
   • array< int32_t >^ UnrolledAmplitude [get]
   • array< uint32_t >^ UnrolledSync [get]
   • array< uint64_t >^ UnrolledDuration [get]
11.144.1 Constructor & Destructor Documentation
11.144.1.1 StimulusDeviceDataAndUnrolledData() StimulusDeviceDataAndUnrolledData ()
11.144.1.2 ~StimulusDeviceDataAndUnrolledData() ~StimulusDeviceDataAndUnrolledData ()
Destructor: called by Dispose()
11.144.1.3 "!StimulusDeviceDataAndUnrolledData() !StimulusDeviceDataAndUnrolledData ()
Finalizer: called by GC before collecting
11.144.2 Property Documentation
11.144.2.1 DeviceData array< uint8_t>^ DeviceData [get]
11.144.2.2 DeviceDataLength int DeviceDataLength [get]
11.144.2.3 UnrolledAmplitude array< int32_t>^ UnrolledAmplitude [get]
11.144.2.4 UnrolledDuration array< uint64_t>^ UnrolledDuration [get]
```

11.144.2.5 UnrolledSync array< uint32_t>^ UnrolledSync [get]

11.145 usbSetupPacket_t Class Reference

Public Attributes

- uint8 t bmRequestType
- uint8_t bRequest
- uint16_t wValue
- uint16 t wIndex
- uint16_t wLength

11.145.1 Member Data Documentation

```
11.145.1.1 bmRequestType uint8_t bmRequestType
```

```
11.145.1.2 bRequest uint8_t bRequest
```

```
11.145.1.3 windex uint16_t wIndex
```

```
11.145.1.4 wLength uint16_t wLength
```

 $\textbf{11.145.1.5} \quad \textbf{wValue} \quad \texttt{uint16_t} \quad \texttt{wValue}$

11.146 W2100_StimulusParametersNet Struct Reference

Public Attributes

- int DACResolution
- int TimeResolutionInNanoSeconds
- int VoltageRangeInMicroVolt
- int VoltageResolutionInMicroVolt
- int CurrentRangeInNanoAmp
- int CurrentResolutionInNanoAmp

11.146.1 Member Data Documenta	ation
--------------------------------	-------

- 11.146.1.1 CurrentRangeInNanoAmp int CurrentRangeInNanoAmp
- 11.146.1.2 CurrentResolutionInNanoAmp int CurrentResolutionInNanoAmp
- 11.146.1.3 DACResolution int DACResolution
- 11.146.1.4 TimeResolutionInNanoSeconds int TimeResolutionInNanoSeconds
- 11.146.1.5 VoltageRangeInMicroVolt int VoltageRangeInMicroVolt
- $\textbf{11.146.1.6} \quad \textbf{VoltageResolutionInMicroVolt} \quad \texttt{int VoltageResolutionInMicroVolt}$

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