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CMP One

x

Code

C#

```
using ec = ComiLib.EtherCAT.SafeNativeMethods;

uint logBitAddr = 0; // LogicBitAddress
int method = 0; // CMP
int cntrType = 0; // CMP . Command / Feedback
int logic = 0; // CMP
int duration = 10; // CMP . ms.

double cmpPosition = 0;
static ec.CallbackFunc callBackFunc;
private void btnCmpOneStart_Click(object sender, EventArgs e)
{
    //
    // // CMP LogicBitAddress
    // Local 가 ,
    if (usingOutputCh) // Output
    {
        int ch = 0; // CMP
        logBitAddr = ec.ecdoLogBitAddr_FromGlobalChannel(netID, ch,
ref errorCode);
        if (errorCode != 0)
        {
            //
        }
    }
    else // OnBoard( ) DO
    {
        int ch = 0;
        logBitAddr = ec.ecdoLogBitAddr_FromOnboardChannel(netID, ch,
ref errorCode);
        if (errorCode != 0)
        {
            //
        }
    }

    //
    ec.ecmSxCmpOne_ClearOutResult(netID, axisID, ref errorCode);
    if (errorCode != 0)
```

```
{
//
}

cmpCount = 0;
logic = 0; // CMP . 0 : Logic A. 1 : Logic B
duration = 100; // CMP . ms.

// CMP
ec.ecmSxCmpOne_SetChannel(netID, axisID, logBitAddr, logic,
duration, ref errorCode);
if (errorCode != 0)
{
//
}

// CMP
// CMP Method
// 0 : Current = Reference (While Counting Down)
// 1 : Current = Reference (While Counting Up)
// 2 : Current = Reference
// 3 : Current < Reference
// 4 : Current > Reference
// 5 : Current <= Reference
// 6 : Current >= Reference
// cntrType
// 0 : Command
// 1 : Feedback
cmpPosition = 10000; //CMP
method = 6; // CMP
cntrType = 1; // CMP
ec.ecmSxCmpOne_SetCondition(netID, axisID, cntrType, method,
cmpPosition, ref errorCode);
if (errorCode != 0)
{
//
}
// CMP Notify
//CMP Notify :
(ecmSxCmpOne_ ) 가
// message CallBack
switch (cbxTypeSel.SelectedIndex)
{
case 0:
if (!ec.ecmSxCmpOne_SetHandler_MSG(netID, axisID,
(int)ec.EEcmHandlerType.ecmHT_MESSAGE, this.Handle, WMU_CMPMESSAGE,
this.Handle, ref errorCode)) // CMP Message
{
AddLog(string.Format("ecmSxCmpOne_SetHandler_MSG
failed. errorCode : {0}", errorCode));
return;
}
}
}
```

```
        }
        break;

        case 1:
            callBackFunc = new ec.CallbackFunc(CallBackFunc);
            if (!ec.ecmSxCmpOne_SetHandler_CLB(netID, axisID,
(int)ec.EEcmHandlerType.ecmHT_CALLBACK, callBackFunc, 0, this.Handle,
ref errorCode)) // CMP Message
            {
                AddLog(string.Format("ecmSxCmpOne_SetHandler_CLB
failed. errorCode : {0}", errorCode));
                return;
            }
            break;
    }

    //CMP
    bool isEnabled = true;
    if (!ec.ecmSxCmpOne_SetEnable(netID, axisID, isEnabled, ref
errorCode)) // CMP Enable
    {
        //
    }
}

private void btnCmpOneStop_Click(object sender, EventArgs e)
{
    //CMP Notify
    switch (cbxTypeSel.SelectedIndex)
    {
        case 0:
            if (!ec.ecmSxCmpOne_SetHandler_MSG(netID, axisID,
(int)ec.EEcmHandlerType.ecmHT_DISABLE, this.Handle, WMU_CMPMESSAGE,
this.Handle, ref errorCode))
            {
                //
            }

            break;

            case 1:
                if (!ec.ecmSxCmpOne_SetHandler_CLB(netID, axisID,
(int)ec.EEcmHandlerType.ecmHT_DISABLE, callBackFunc, 0, this.Handle,
ref errorCode))
                {
                    //
                }
                break;
            }

            // CMP
```

```
    bool isEnabled = false;
    if (!ec.ecmSxCmpOne_SetEnable(netID, axisID, isEnabled, ref
    errorCode))
    {
        //
    }
}

private void UpdateCmp()
{
    //
    // CmpOne    CmpCont
    //
    ec.ecmSxCmpOne_GetChannel(netID, axisID, ref logBitAddr, ref
    logic, ref duration, ref errorCode);
    //
    ec.ecmSxCmpOne_GetCondition(netID, axisID, ref cntrType, ref
    method, ref cmpPosition, ref errorCode);
    // UI
}
```

C++

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