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# CMP One

x

## Code

C#

```

using ec = ComiLib.EtherCAT.SafeNativeMethods;

private void btnCmpOneStart_Click(object sender, EventArgs e)
{
    //
    // CMP
    // Local 가 ,
    if (usingOutputCh) // Output
    {
        int ch = 0; // CMP
        logBitAddr = ec.ecdoLogBitAddr_FromGlobalChannel(netID, ch,
ref errorCode);
        if (errorCode != 0)
        {
            //
        }
    }
    else // OnBoard( ) D0
    {
        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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