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# Version Compare

x SW Version

## Code

C#

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

bool IsVersionMatch(ref string message)
{
    ec.TEcFileVerInfo_SDK sdkInfo = new ec.TEcFileVerInfo_SDK();
    ec.TEcFileVerInfo_WDM driverInfo = new ec.TEcFileVerInfo_WDM();
    ec.TEcFileVerInfo_FW fwInfo = new ec.TEcFileVerInfo_FW();

    bool isVersionMatch = ec.ecNet_GetVerInfo(0, ref sdkInfo, ref
driverInfo, ref fwInfo, ref errorCode);

    if (isVersionMatch)
    {
        message = "OK";
        return true;
    }

    // Firmware Verion
    string ver_Fw = string.Format("{0}.{1}.{2}.{3}",
fwInfo.CurVer.MajorVer, fwInfo.CurVer.MinorVer, fwInfo.CurVer.BuildNo,
fwInfo.CurVer.RevNo);
    string comp_Fw_Drv = string.Empty;
    string comp_Fw_Lib = string.Empty;
    string comp_Drv_Lib = string.Empty;

    //FW - SDK
    switch ((ec.EEcVerCompatResult) sdkInfo.nFwCompResult)
    {
        case ec.EEcVerCompatResult.ecVER_MISMATCH_LOWER: comp_Fw_Lib =
"Library version is higher than the Firmware"; break;
        case ec.EEcVerCompatResult.ecVER_MISMATCH_HIGHER: comp_Fw_Lib
= "Library version is lower than the Firmware"; break;
        case ec.EEcVerCompatResult.ecVER_MATCH: comp_Fw_Lib = "OK";
break;
        default: comp_Fw_Lib = "Firmware Version is invalid"; break;
    }

    //FW-WDM
    switch ((ec.EEcVerCompatResult) driverInfo.nFwCompResult)
```

```
{
    case ec.EEcVerCompatResult.ecVER_MISMATCH_LOWER: comp_Fw_Drv =
"Driver version is higher than the Firmware"; break;
    case ec.EEcVerCompatResult.ecVER_MISMATCH_HIGHER: comp_Fw_Drv
= "Driver version is lower than the Firmware"; break;
    case ec.EEcVerCompatResult.ecVER_MATCH: comp_Fw_Drv = "OK";
break;
    default: comp_Fw_Drv = "Firmware Version is invalid"; break;
}

//SDK-WDM
switch ((ec.EEcVerCompatResult) sdkInfo.nWdmCompResult)
{
    case ec.EEcVerCompatResult.ecVER_MISMATCH_LOWER: comp_Drv_Lib
= "Driver version is lower than the Library"; break;
    case ec.EEcVerCompatResult.ecVER_MISMATCH_HIGHER: comp_Drv_Lib
= "Library version is lower than the Driver"; break;
    case ec.EEcVerCompatResult.ecVER_MATCH: comp_Drv_Lib = "OK";
break;
    default: comp_Drv_Lib = "Driver Version is invalid"; break;
}

message = string.Format("FW-WDM : {0}. WDM-DLL : {1}. FW-DLL :
{2}", comp_Fw_Drv, comp_Drv_Lib, comp_Fw_Lib);
return false;
}
```

## C++

```
bool IsVersionMatch()
{
    TEcFileVerInfo_SDK SdkVerInfo;
    TEcFileVerInfo_WDM WdmVerInfo;
    TEcFileVerInfo_FW FwVerInfo;
    int nErrCode;
    return ecNet_GetVerInfo(NETID, &SdkVerInfo, &WdmVerInfo,
&FwVerInfo, &nErrCode);
}
```

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