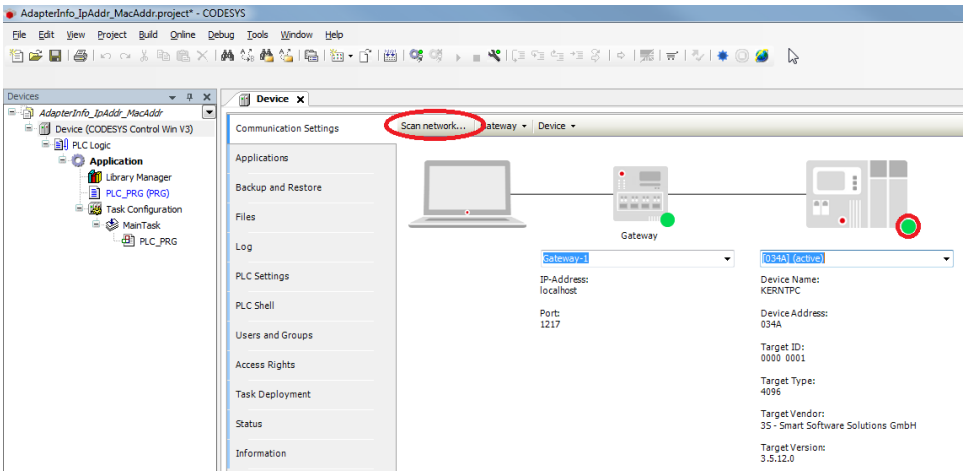
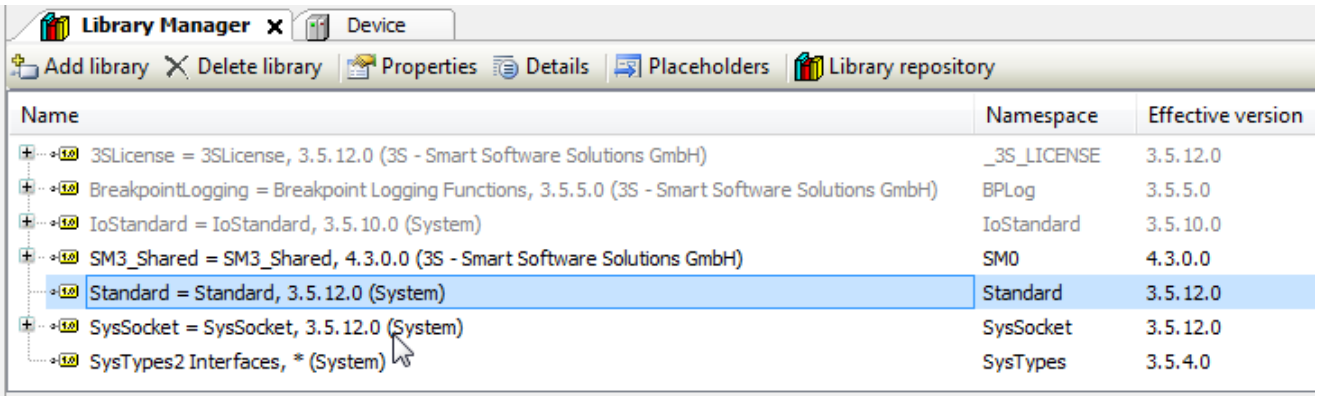
Reading the IP and MAC Addresses from AdapterInfo

- Create a "Standard project" and select *CODESYS Control Win V3* as the device.
- Define the target system by means of the *Network scan*.



- Open the *Library Manager* and add the following libraries:
  - SysSocket
  - SM3_Shared
  - SysTypes2 Interfaces



- Adapt the POU *PLC_PRG* as follows:

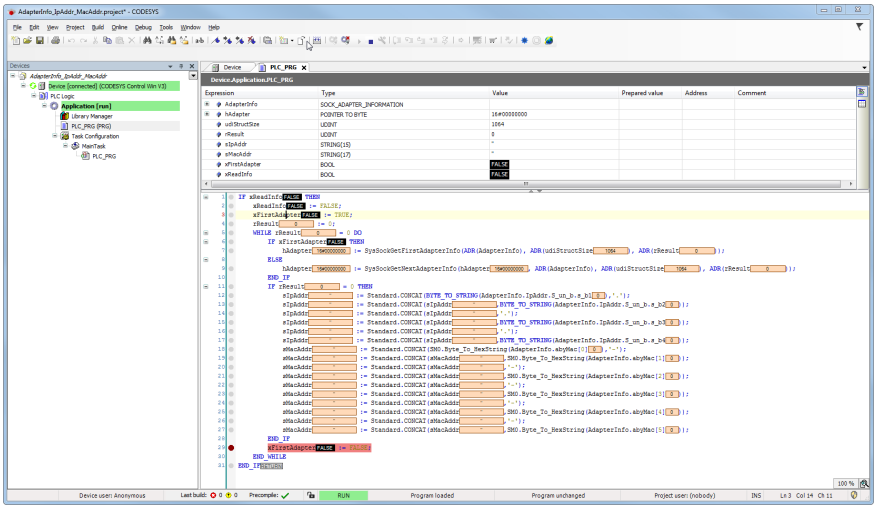
Declaration

```
VAR
    AdapterInfo     : SOCK_ADAPTER_INFORMATION;
    hAdapter        : RTS_IEC_HANDLE;
    udiStructSize   : UDINT := SIZEOF(AdapterInfo);
    rResult         : RTS_IEC_RESULT;
    sIpAddr         : STRING(15);
    sMacAddr        : STRING(17);
    xFirstAdapter   : BOOL;
    xReadInfo       : BOOL;
END_VAR
```

Implementation

```
IF xReadInfo THEN
    xReadInfo := FALSE;
    xFirstAdapter := TRUE;
    rResult := 0;
    WHILE rResult = 0 DO
        IF xFirstAdapter THEN
            hAdapter := SysSockGetFirstAdapterInfo(ADR(AdapterInfo), ADR(udiStructSize), ADR
(rResult));
        ELSE
            hAdapter := SysSockGetNextAdapterInfo(hAdapter, ADR(AdapterInfo), ADR(udiStructSize),
ADR(rResult));
        END_IF
        IF rResult = 0 THEN
            sIpAddr := Standard.CONCAT(BYTE_TO_STRING(AdapterInfo.IpAddr.S_un_b.s_b1),'.');
            sIpAddr := Standard.CONCAT(sIpAddr,BYTE_TO_STRING(AdapterInfo.IpAddr.S_un_b.s_b2));
            sIpAddr := Standard.CONCAT(sIpAddr,'.');
            sIpAddr := Standard.CONCAT(sIpAddr,BYTE_TO_STRING(AdapterInfo.IpAddr.S_un_b.s_b3));
            sIpAddr := Standard.CONCAT(sIpAddr,'.');
            sIpAddr := Standard.CONCAT(sIpAddr,BYTE_TO_STRING(AdapterInfo.IpAddr.S_un_b.s_b4));
            sMacAddr := Standard.CONCAT(SM0.Byte_To_HexString(AdapterInfo.abyMac[0]),'-');
            sMacAddr := Standard.CONCAT(sMacAddr,SM0.Byte_To_HexString(AdapterInfo.abyMac[1]));
            sMacAddr := Standard.CONCAT(sMacAddr,'-');
            sMacAddr := Standard.CONCAT(sMacAddr,SM0.Byte_To_HexString(AdapterInfo.abyMac[2]));
            sMacAddr := Standard.CONCAT(sMacAddr,'-');
            sMacAddr := Standard.CONCAT(sMacAddr,SM0.Byte_To_HexString(AdapterInfo.abyMac[3]));
            sMacAddr := Standard.CONCAT(sMacAddr,'-');
            sMacAddr := Standard.CONCAT(sMacAddr,SM0.Byte_To_HexString(AdapterInfo.abyMac[4]));
            sMacAddr := Standard.CONCAT(sMacAddr,'-');
            sMacAddr := Standard.CONCAT(sMacAddr,SM0.Byte_To_HexString(AdapterInfo.abyMac[5]));
        END_IF
        xFirstAdapter := FALSE;
    END_WHILE
END_IF
```

- Start the project and set a breakpoint in line 6 of the POU *PLC_PRG*.



- After setting the *xReadInfo* variable, the variables are read for each adapter: