



Beijer ELECTRONICS SER0055 iX Detect VNC Client Connection User Guide

[Home](#) » [Beijer ELECTRONICS](#) » Beijer ELECTRONICS SER0055 iX Detect VNC Client Connection User Guide 

Contents

- [1 Beijer ELECTRONICS SER0055 iX Detect VNC Client Connection](#)
- [2 Function and area of use](#)
- [3 About this document](#)
- [4 The iX example project](#)
 - [4.1 The VNC server](#)
 - [4.2 The Referenced Assembly OpenNETCF.Net.dll](#)
 - [4.3 The Script Module](#)
- [5 Adding the VNC Client Detection](#)
- [6 Import the project parts](#)
- [7 About Beijer Electronics](#)
- [8 Documents / Resources](#)
 - [8.1 References](#)
- [9 Related Posts](#)



Beijer ELECTRONICS SER0055 iX Detect VNC Client Connection



Function and area of use

This document shows how to check whether a VNC Client is connected to the X2 panel. The time for the cyclic check is adjustable inside the script module.

About this document

This quick start document should not be considered as a complete manual. It is an aid to be able to startup a normal application quickly and easily.

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Use the following items in order to obtain a stable application:

In this document we have used following software and hardware

- iX Developer 2.40 SP5 / SP6
- X2 base/pro/marine/control/extreme series

For further information refer to

- iX Developer Reference Manual (MAxx831)
- iX Developer User's Guide (MAxx832)
- Beijer Electronics knowledge database, Help Online

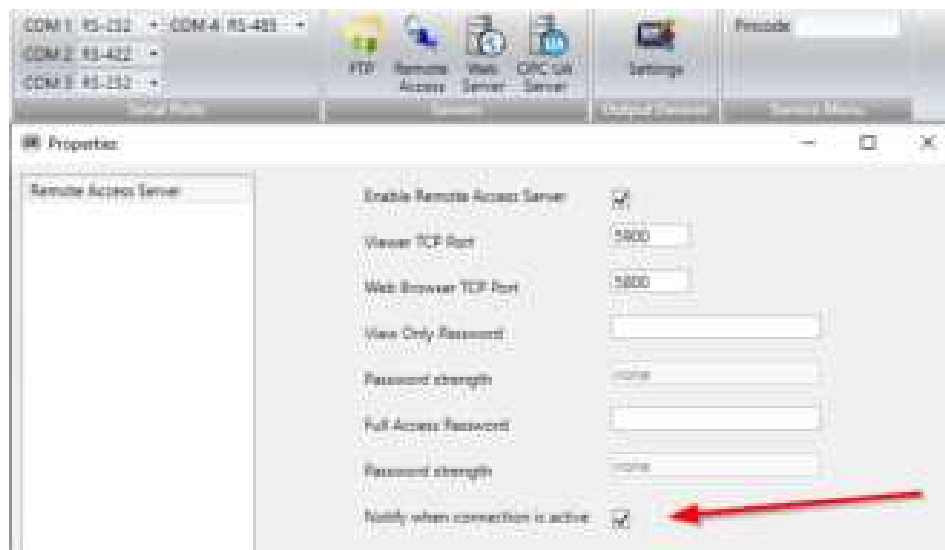
This document and other Startup documents can be obtained from our homepage.
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The iX example project

The cyclic check whether a VNC Client is connected is done inside the script module
SCM_VNCDetection.

The VNC server

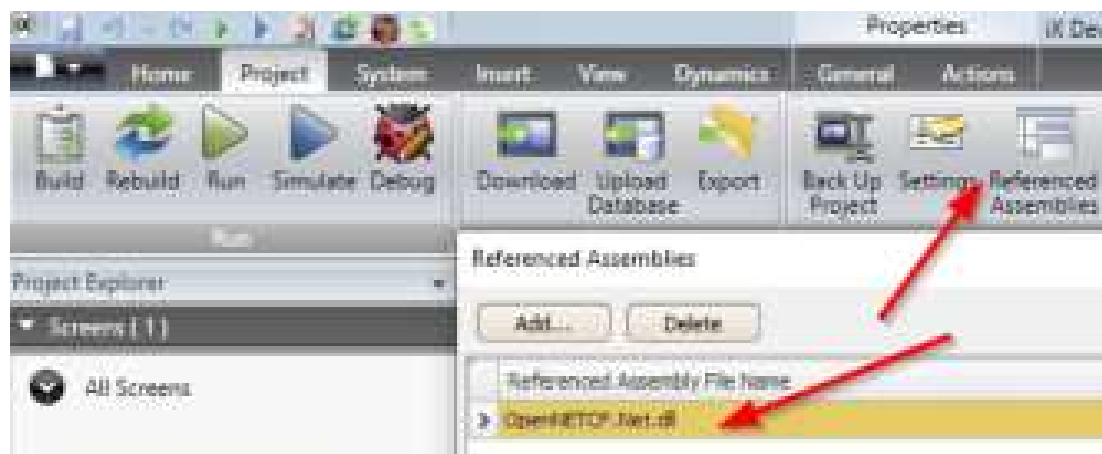
In the System menu you can activate the VNC/Remote Access Server.
Optionally specify credentials and/or enable “Notify when connection is active”.
This option shows that a VNC Client connection is active in a small PopUp – but you don’t get this information bound to an iX Tag.



The Referenced Assembly OpenNETCF.Net.dll

OpenNETCF is committed to open source projects to help the mobile and embedded development community in their projects whether it be enterprise development or commercial development. All projects are under either the OpenNETCF Shared Source License or the MIT X11 license.

In “Project” “Referenced Assemblies” the “OpenNETCF.Net.dll” is inserted.



The Script Module

Inside the script module the following Namespace is inserted additionally to enable TCP socket info.

using OpenNETCF.Net.NetworkInformation;

Every iX script module brings a “Created” method with it, which is perfect to initialize stuff as it is worked on exactly once at the start of the iX project.

- // The method is invoked when the script module object is created.
- void SCM_VNCDetection_Created(System.Object sender, System.EventArgs e)
- {
- m_Timer= new Timer();
- m_Timer.Enabled = true;
- m_Timer.Interval = 2000; //ms – adjust time for cyclic check here.
- m_Timer.Tick += OnTimerTick;
- }
- // Cycle
- private void OnTimerTick(System.Object sender, System.EventArgs e)
- {
- CheckIfVNCPortIsOpen(5900); // This is the VNC port to check (default is 5900)
- }
- // Check if VNC port is open, gets port, sets the VncActive tag
- public void CheckIfVNCPortIsOpen(int port)
- {
- bool foundPort = false;
- IPGlobalProperties ipProperties = IPGlobalProperties.GetIPGlobalProperties();
- TcpConnectionInformation[] tcpConnections = ipProperties.GetActiveTcpConnections();
- foreach (TcpConnectionInformation info in tcpConnections)
- if((byteswap(info.LocalEndPoint.Port) == port) &&
- (info.State.ToString() == “Established”))
- {
- // Set tag if port connection is established
- Globals.Tags.VNCActive.Value = true;
- foundPort = true;
- }
- if(!foundPort)
- // If no port is found, reset tag
- Globals.Tags.VNCActive.Value = false;
- }

Adding the VNC Client Detection

Implementation

1. Import the script module “SCM_VNCDetection” , see example project (iX_Detect_VNC_Client_V1_0_0).
2. Create the Tag “VNCActive” with Datatyp BOOL

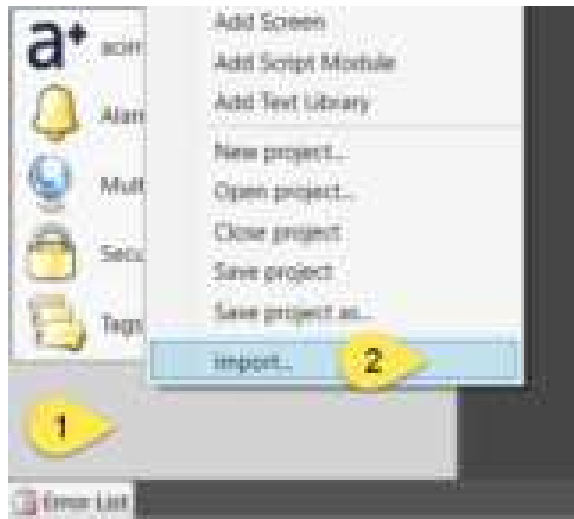
Tag				Controllers	
Name	Data T...	Access Right	Data T...	Controller1	
> VNCActive	...	BOOL	ReadWrite	DEFAULT	

3. Add the OpenNETCF.Net.dll to your referenced assemblies (see 4.2).
4. Optionally import Screen1 of the example project (iX_Detect_VNC_Client_V1_0_0).
5. Adapt the screen to your needs.
6. Transfer the application.
7. Run the application.

Import the project parts

Follow the steps to add the enclosed screen and the script module to your iX project:

1. Unpack the enclosed example ZIP-file to a temporary folder.
2. Start iX Developer and load your project.
3. In the Project Explorer, right-click in the lower left corner (1. in the picture)
4. In the list, select Import... (2. in the picture)
5. Navigate to the temporary folder, where you unpacked the ZIP-file and select SCM_VNCDetection.neo, click [Open]. Select and add the OpenNETCF.Net.dll . It is located in the example project -folder iX_Detect_Internet_Connection_V1_0_0\ReferencedAssembly.
6. Select Screen1.neoxaml, click [Open].
7. Done!



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	<p>Beijer ELECTRONICS SER0055 iX Detect VNC Client Connection [pdf] User Guide SER0055 iX Detect VNC Client Connection, SER0055, iX Detect VNC Client Connection, Client Connection</p>
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References

-  [Beijer ELECTRONICS SER0055 iX Detect VNC Client Connection](#)

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