

TC Router SMS via XML Guide - PLCnext

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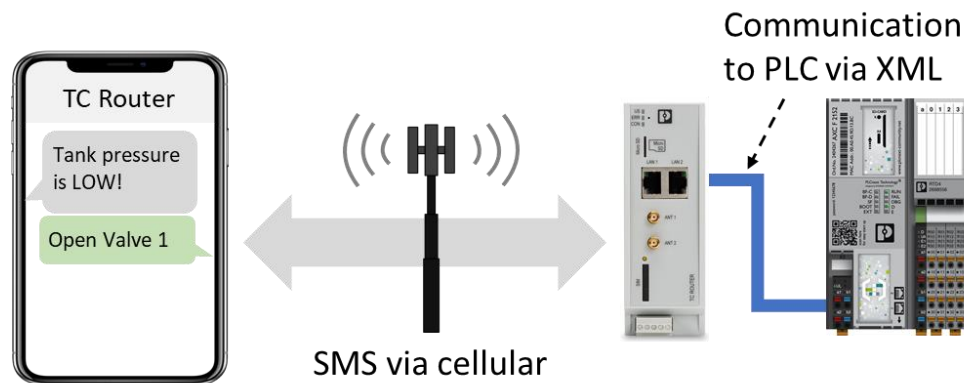


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Introduction:

Objectives:

This guide explains how to use the XML socket server of the TC Router to send and receive SMS messages from a Phoenix Contact PLC using PLCnext Engineer.

This guide DOES NOT provide instruction on how to send/receive SMS messages using the native I/O on the TC Router. The guide that covers this topic can be found at: www.phoenixcontact.com/tcrouter

Requirements:

Users are required to have an active cellular data plan that supports SMS, a Phoenix Contact TC Router, a 4G LTE antenna, a Phoenix Contact AXC F 2152, PLCnext Engineer, and the two libraries linked to this document below.

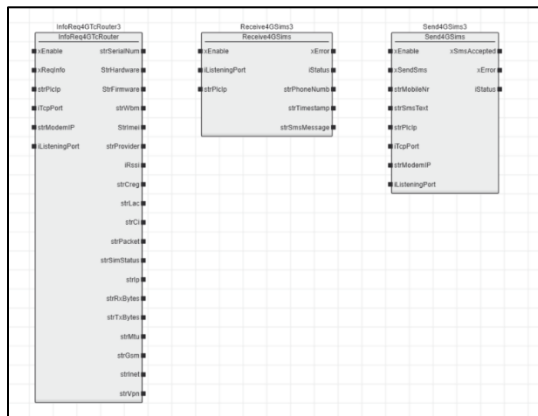
[4G_SMS_Req_V1_0.pcwlx](#)

[4G_SMS_V1_0.pcwlx](#)

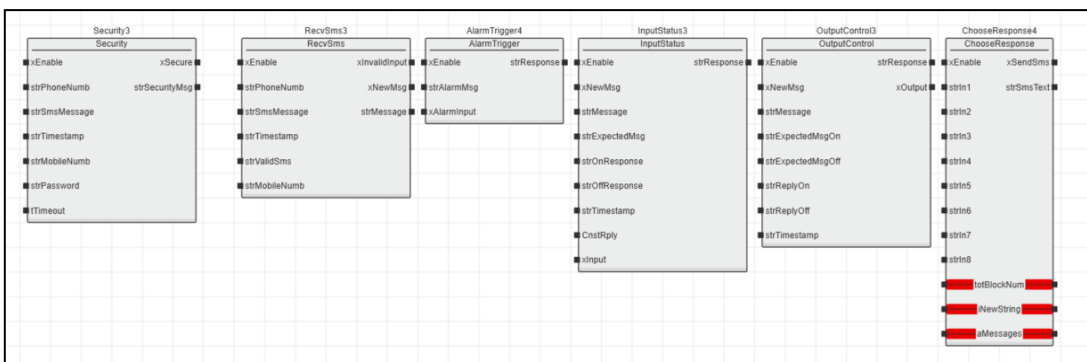


Library notes:

The 4G_SMS_V1_0.pcwlx enables you to pull status information from the TC Router and send/receive SMS via the XML socket server.



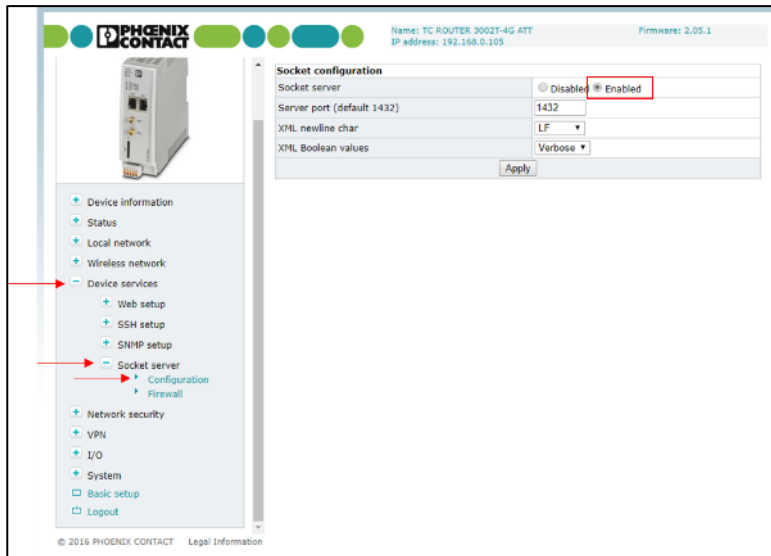
The 4G_SMS_Req_V1_0.pcwlx has prebuilt functions that simplify the commands to send and receive SMS messages, provide password protection security, control PLC variables, and provide I/O status.



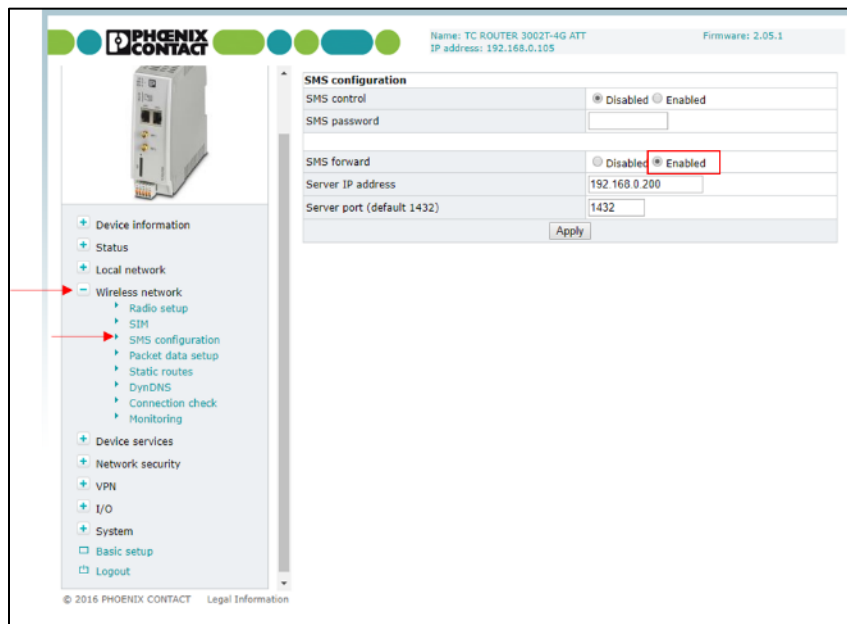
Procedure:

Configure the TC Router

1. Enable the TC Router Socket Server by navigating to Device Services >> Socket Server >> Configuration
 - Note: For Firmware older than 2.05.1, the Socket Server configuration menu is located under I/O >> Socket Server

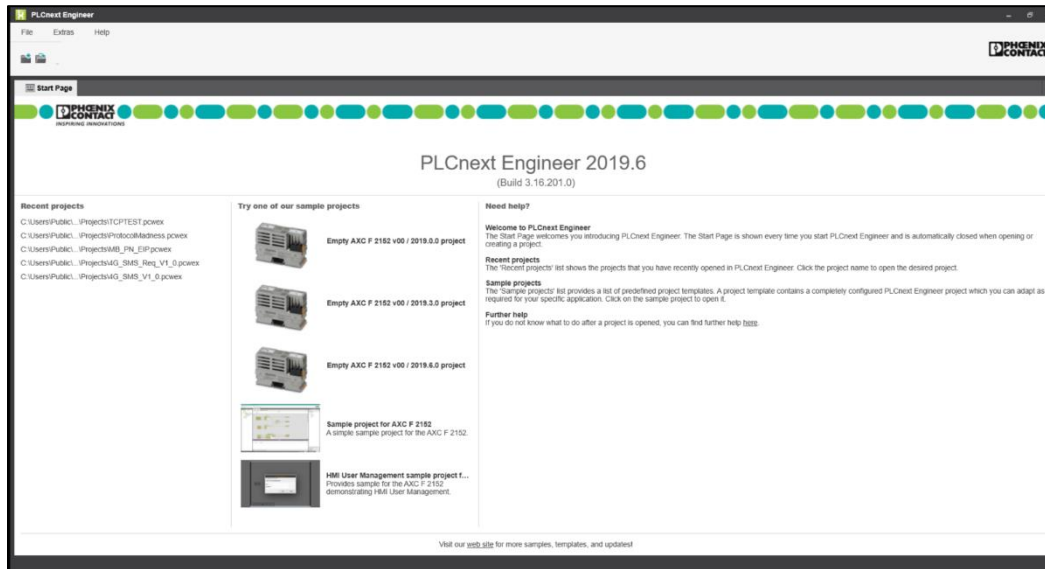


2. Enable SMS forward by navigating to Wireless network >> SMS configuration. Set the Server IP address as the PLC IP address.

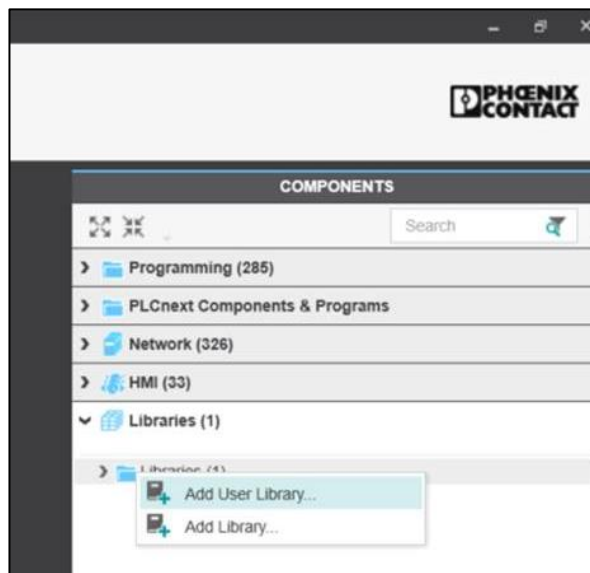


Configure PLCnext Engineer

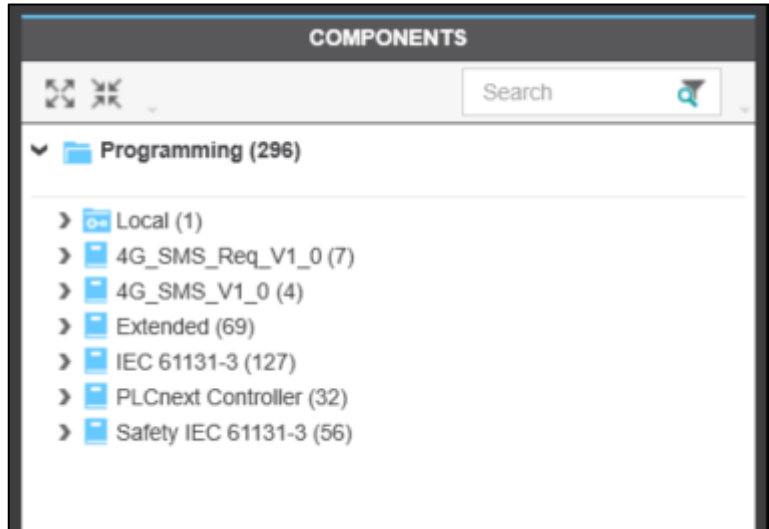
3. Download each library to C:\Users\Public\Documents\PLCnext Engineer\Libraries
4. Open PLCnext Engineer, select an empty project with your correct PLC version



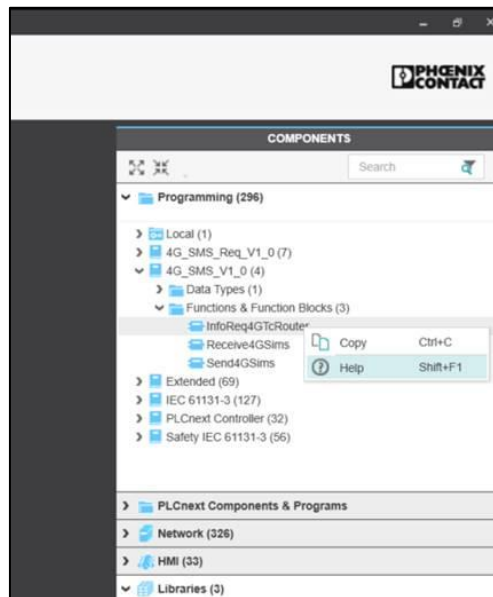
5. On the bottom right of the screen, click the drop down for libraries and then right click and add user library



6. Select the two libraries and click open. The function blocks will populate in the Programming section of the Components Window



7. Open the dropdowns until you get to a function block. Right click on any block and select help for the help file. Read these help files for information on the function blocks and programming examples



Change Notes

08/06/2019: Initial release

10/12/2020: Replaced the embedded source code files with the complete library files