

Using Red Lion Work Bench Redundancy

Abstract

This document will tell you how to use the built in redundancy of the new ST-IPM-8460

Products

ST-IPM-8460

Use Case: When the process is mission critical or you want redundancy in your controllers

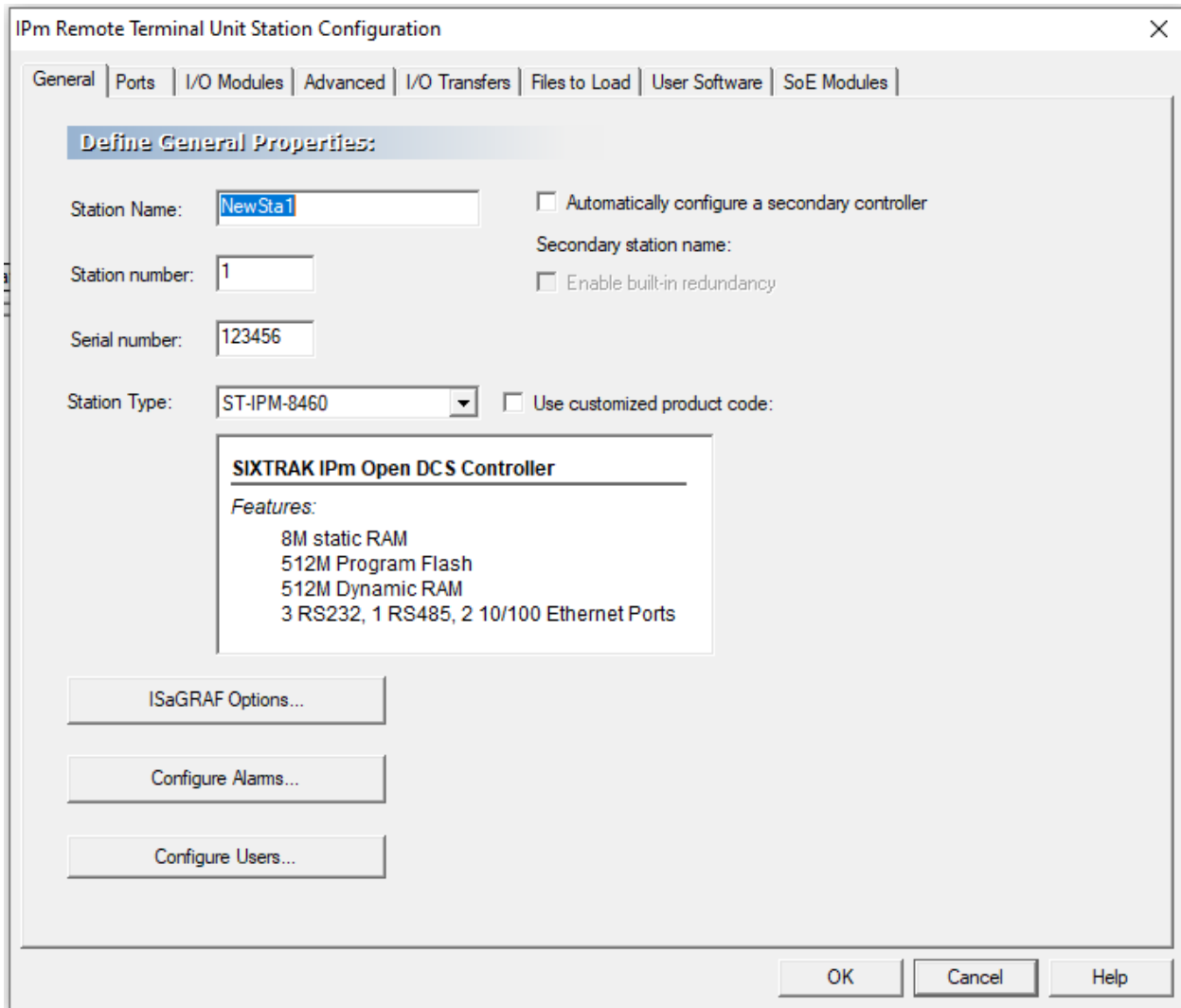
Required Software

Sixnet IO Toolkit 5.1.101 or higher

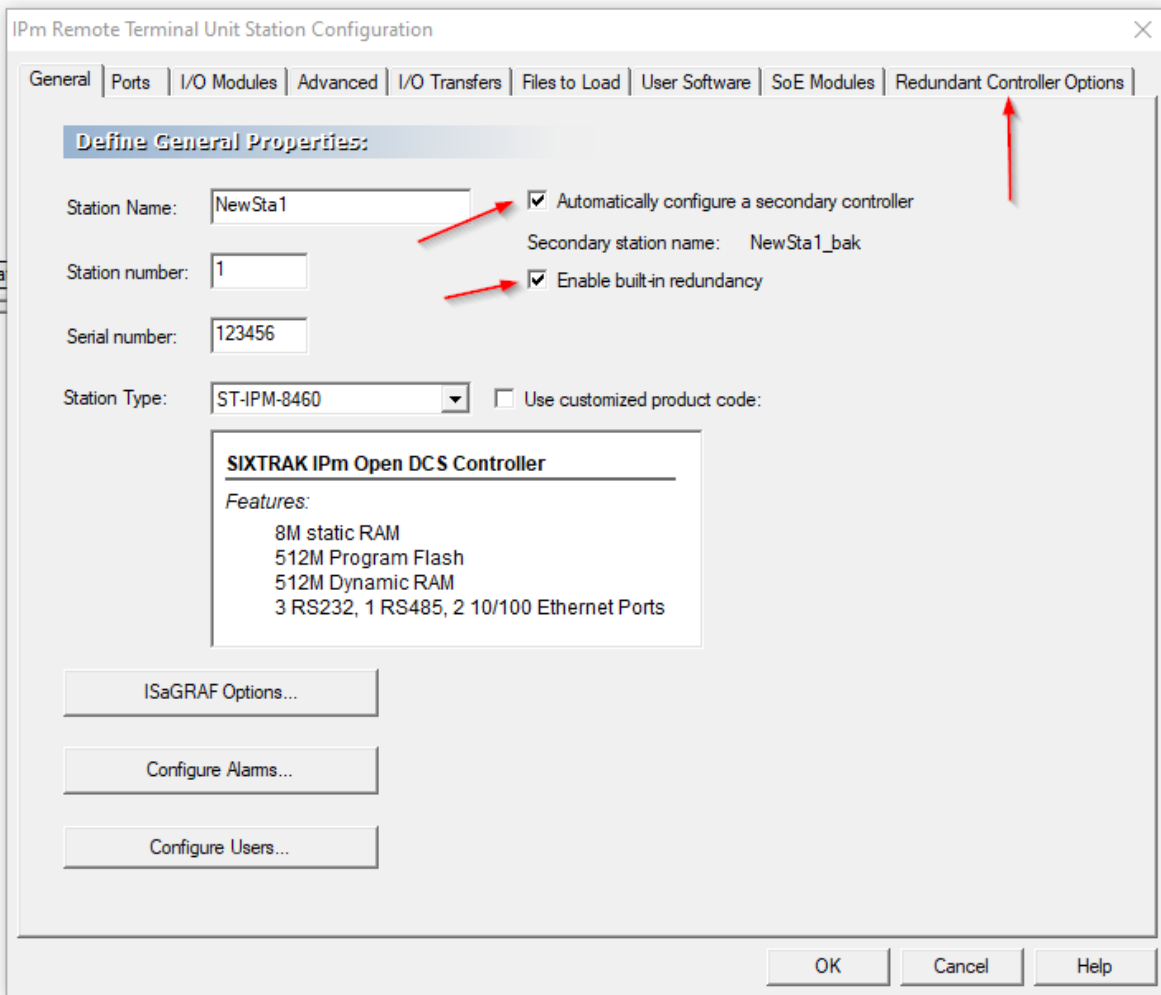
Red Lion Work Bench 1.03 or higher

Basic setup

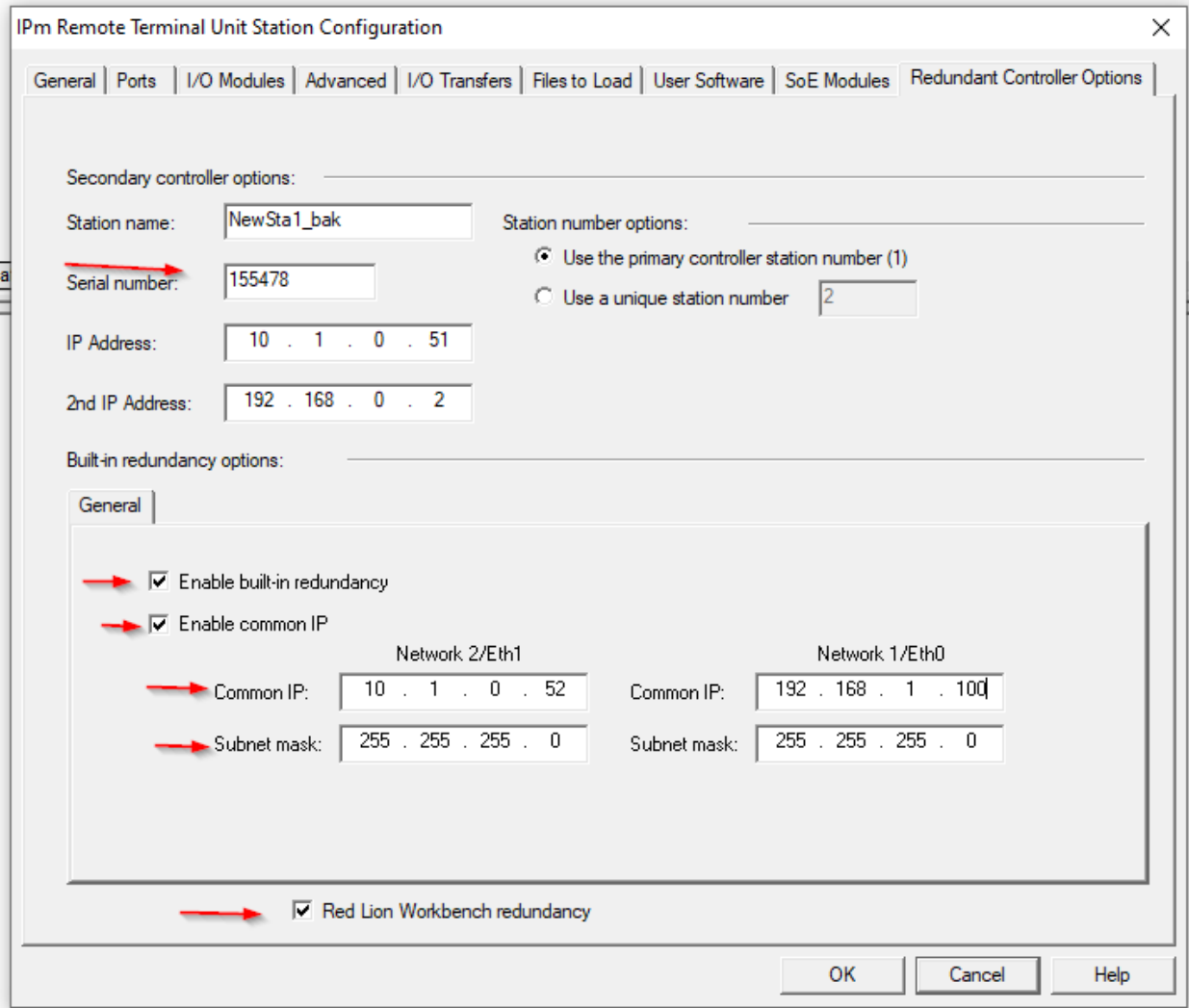
This document will assume you are already familiar enough with the general setup of the basic Sixnet IO Toolkit and have your RTU/processor already setup for basic configuration. That would look something like this.



As you can see all of the basic configurations are done... Now lets begin to set up the redundancy.



Check the boxes that the 2 arrows are pointing too and you will see another tab called Redundant Controller Options pop up on your tabs.



Serial Number is the serial number of the 2nd RTU

Always use the same primary controller number so no change there.

Click the Enable Built in redundancy

Click Enable common IP – This IP will be the IP that your HMI/SCADA system will want to use as the IP address that it is polling for information. The reason behind this is, This IP is common to both RTUs and as such you do not have to change your HMI/SCADA polling IP if you ever fail over to the backup RTU.

Click on the Red Lion Work Bench Redundancy

Note... Since you are using the Red Lion Work Bench Redundancy, any program changes you download to the Primary RTU will automatically by the Red Lion Work Bench firmware update the Secondary/Backup RTU. You will NOT have to download to the backup RTU.

Redundancy Network Cabling

For the Red Lion Work Bench to work correctly you must have Eth0/Network 1- the front ethernet port (standing by itself), having an ethernet cable running straight from one to another one, not thru a switch.

Note... The failover only occurs when the RTU in primary **COMPLETELY DIES**. It will not occur simply by losing comms to the end devices.