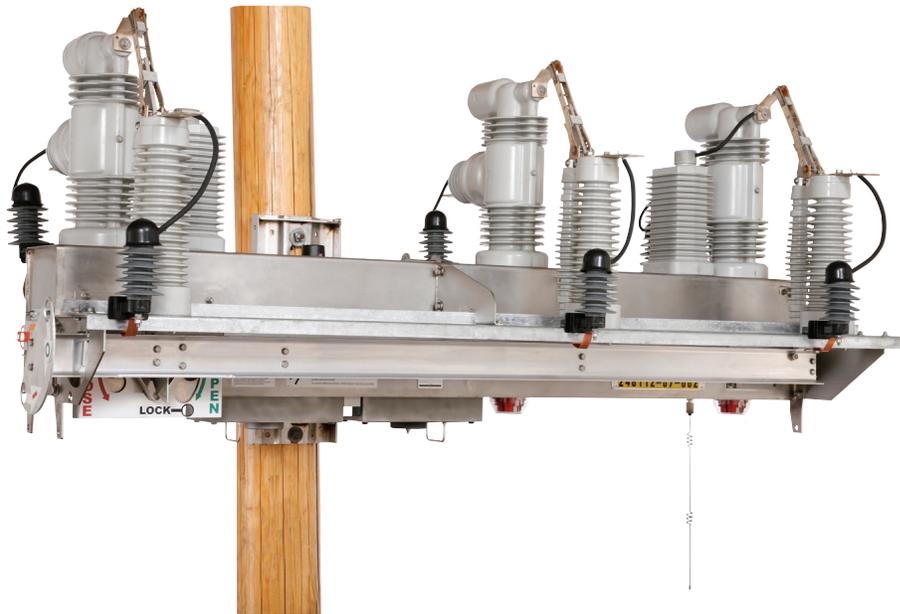


Base Memory Module Configuration for Retrofit Ground Trip Block Lever

Table of Contents

Section	Page	Section	Page
Introduction		Install Software on Your Computer	
Qualified Persons	2	Computer Requirements	5
Read this Instruction Sheet	2	Software Installation	6
Retain this Instruction Sheet	2	Updating the Base Memory Module	
Special Warranty Provisions	2	Connect to the Control	8
Safety Information		Update	9
Understanding Safety-Alert Messages	3	Verifying Lever Operation	
Following Safety Instructions	3	Connect to IntelliLink® Setup Software	11
Replacement Instructions and Labels	3	Download Utility	12
Overview	4	Verification	14



Introduction

Qualified Persons

WARNING

The equipment covered by this publication must be installed, operated, and maintained by qualified persons who are knowledgeable in the installation, operation, and maintenance of overhead electric power distribution equipment along with the associated hazards. A qualified person is one who is trained and competent in:

- The skills and techniques necessary to distinguish exposed live parts from non-live parts of electrical equipment.
- The skills and techniques necessary to determine the proper approach distances corresponding to the voltages to which the qualified person will be exposed.
- The proper use of the special precautionary techniques, personal protective equipment, insulating and shielding materials, and insulated tools for working on or near exposed energized parts of electrical equipment.

These instructions are intended only for such qualified persons. They are not intended to be a substitute for adequate training and experience in safety procedures for this type of equipment.

Read this Instruction Sheet

Thoroughly and carefully read this instruction sheet before programming, operating, or maintaining your S&C IntelliRupter PulseCloser Fault Interrupter. Familiarize yourself with the safety information on page 3. The latest version of this instruction sheet is available online in PDF format at sandc.com/Support/Product-Literature.asp

Retain this Instruction Sheet

This instruction sheet is a permanent part of your S&C IntelliRupter® fault interrupter. Designate a location where you can easily retrieve and refer to this publication.

Special Warranty Provisions

The standard warranty contained in S&C's standard conditions of sale, as set forth in Price Sheet 150, applies to IntelliRupter fault interrupter and its associated options except for the control group (the protection and control module and communication module) and S&C SpeedNet™ Radio, as applicable. For these devices the first paragraph of said warranty is replaced by the following:

(1) General: Seller warrants to immediate purchaser or end user for a period of 10 years from the date of shipment that the equipment delivered will be of the kind and quality specified in the contract description and will be free of defects of workmanship and material. Should any failure to conform to this warranty appear under proper and normal use within ten years after the date of shipment the seller agrees, upon prompt notification thereof and confirmation that the equipment has been stored, installed, operated, inspected, and maintained in accordance with recommendations of the seller and standard industry practice, to correct the nonconformity either by repairing any damaged or defective parts of the equipment or (at seller's option) by shipment of necessary replacement parts.

Replacement control groups provided by seller or repairs performed by seller under the warranty for the original equipment will be covered by the above special warranty provision for its duration. Replacement control groups purchased separately will be covered by the above special warranty provision.

This warranty does not apply to major components not of S&C manufacture, such as batteries and communication devices, as well as hardware, software, resolution of protocol-related matters, and notification of upgrades or fixes for those devices. However, S&C will assign to immediate purchaser or end user all manufacturers' warranties that apply to such major components.

**Understanding
Safety-Alert Messages**

There are several types of safety-alert messages which may appear throughout this instruction sheet as well as on labels attached to the IntelliRupter fault interrupter. Familiarize yourself with these types of messages and the importance of the various signal words, as explained below.

⚠ DANGER
“DANGER” identifies the most serious and immediate hazards that <i>will likely</i> result in serious personal injury or death if instructions, including recommended precautions, are not followed.

⚠ WARNING
“WARNING” identifies hazards or unsafe practices that <i>can</i> result in serious personal injury or death if instructions, including recommended precautions, are not followed.

⚠ CAUTION
“CAUTION” identifies hazards or unsafe practices that <i>can</i> result in minor personal injury or product or property damage if instructions, including recommended precautions, are not followed.

NOTICE
“NOTICE” identifies important procedures or requirements that <i>can</i> result in product or property damage if instructions are not followed.

**Following
Safety Instructions**

If you do not understand any portion of this instruction sheet and need assistance, contact your nearest S&C Sales Office or S&C Authorized Distributor. Their telephone numbers are listed on S&C’s website sandc.com Or call S&C Headquarters at (773) 338-1000; in Canada, call S&C Electric Canada Ltd. at (416) 249-9171.

NOTICE	
Read this instruction sheet thoroughly and carefully before installing or operating your S&C IntelliRupter PulseCloser Fault Interrupter.	

**Replacement
Instructions and
Labels**

If you need additional copies of this instruction sheet, contact your nearest S&C Sales Office, S&C Authorized Distributor, S&C Headquarters, or S&C Electric Canada Ltd.

It is important that any missing, damaged, or faded labels on the equipment be replaced immediately. Replacement labels are available by contacting your nearest S&C Sales Office, S&C Authorized Distributor, S&C Headquarters, or S&C Electric Canada Ltd.

These instructions are to be used in conjunction with the **IntelliRupter Ground Trip Block Retrofit Kit Instructions RD-7137**.

To ensure proper operation of the IntelliRupter fault interrupter, the installation of the Ground Trip Lever retrofit must be accompanied with execution of this procedure. The software in the IntelliRupter fault interrupter control must be later than version 1.7.6 and less than version 3.5.0. Once this procedure has been completed it will be possible to upgrade to version 3.5.0 and higher. For controls configured with software versions greater than 3.4.9 contact S&C Automation Service, call 1-855-381-8800, or e-mail **automationservices@sandc.com**. Installation of the Ground Trip Block lever renders the Hot Line Tag lever inoperable until this procedure has been executed, and the IntelliRupter fault interrupter software version has been updated. Execution of this procedure on a unit without a Ground Trip Block lever will result in the ground elements being blocked whenever the HOT LINE TAG lever enables Hot Line Tag.

This procedure covers the steps necessary to update the settings in the Base Memory Module to allow the IntelliRupter fault interrupter software to properly recognize the lever updated lever configuration.

WARNING

Installation of the Ground Trip Block lever renders the Hot Line Tag lever inoperable until this procedure has been executed.

NOTICE

Execution of this procedure on a unit without a Ground Trip Block lever will result in the ground elements being blocked whenever the Hot Line Tag lever is in the Hot Line Tag removed position.

Computer Requirements

To install the Base Memory Update Software on your computer you will need:

- A portable IBM-compatible computer with Microsoft® Windows® XP Service Pack 2 (or higher), a wireless card (onboard or USB), a CD-ROM drive, an internet browser, and access to **sandc.com**
- WinZip file utility.
- Microsoft .Net Framework 3.5 Service Pack 1. You can verify that it has been installed on your computer by opening **C:\Windows\Microsoft.Net\Framework** with Windows Explorer. If v3.5 has not been installed, download it from this link:
<http://www.microsoft.com/downloads/details.aspx?FamilyID=ab99342f-5d1a-413d-8319-81da479ab0d7&displaylang=en>
- Windows Installer 3.1
 - To verify that you have Windows Installer 3.1:
 - Click the **Windows Start** button and open Settings > Control Panel
 - Double Click: Add or Remove Programs
 - Scroll down the list and verify that Windows Installer 3.1 is present.
- Windows WZC—Wireless Zero Configuration (recommended)
 - To verify that you have Windows Wireless Zero Configuration:
 - Click the **Windows Start** button and open Settings > Control Panel
 - Double Click: Administrative Tools
 - Double Click: Services
 - Scroll down the list and verify that Wireless Zero Configuration is present.
- Administrative Privileges.
- The software in the IntelliRupter fault interrupter control must be later than version 1.7.6 and less than version 3.5.0. and corresponding software must be loaded on the PC.

The latest IntelliRupter fault interrupter software release and the Base Memory Update software, **GTBRetrofit.zip**, are posted at the S&C Automation Customer Support Portal. This library of current and legacy software requires a password, and gives users access to the software needed for S&C equipment operated by their utility. At **sandc.com** select the *Support* tab and click *S&C Automation Customer Support Portal*. Contact information for obtaining a password is listed on the login page, see Figure 1 on page 6.

Install Software on Your Computer

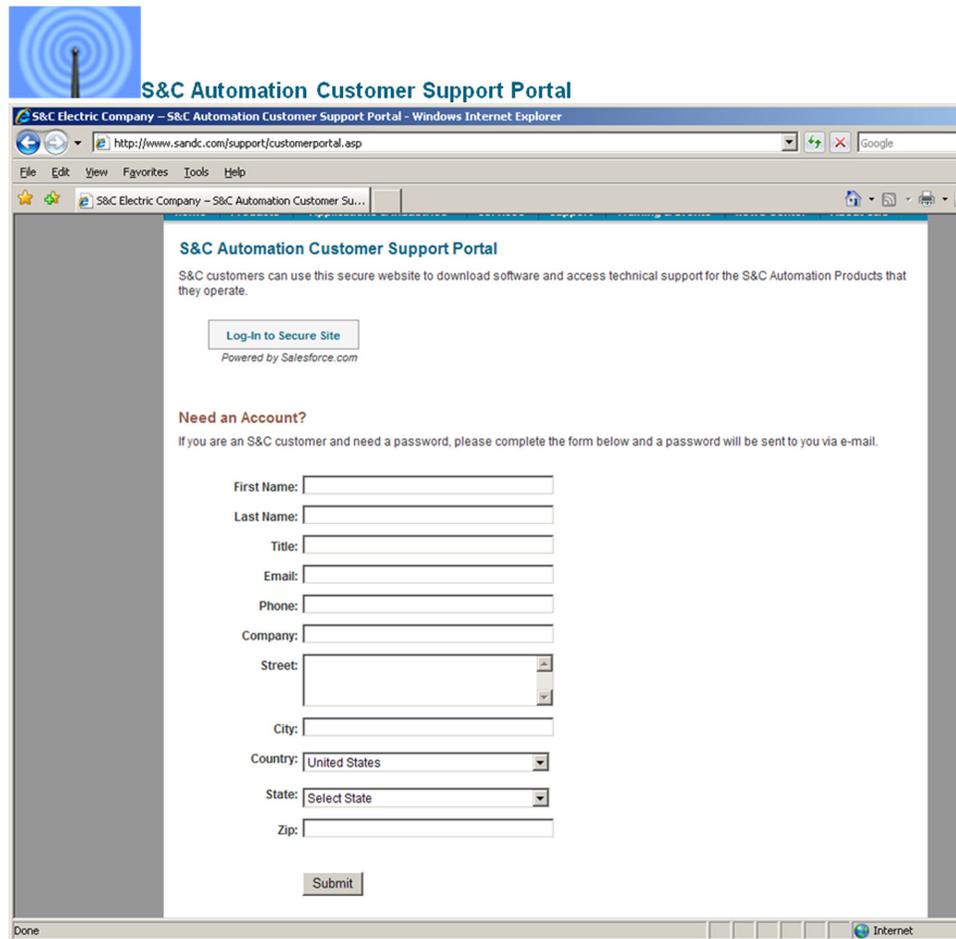


Figure 1. The S&C Automation Customer Support Portal Login page has contact information for obtaining your password.

Software Installation

Refer to S&C Instruction Sheet 766-571 “Software Installation” to install or update the IntelliRupter fault interrupter software version on your computer.

Once the computer has the appropriate IntelliRupter fault interrupter software version installed, copy the zip file **GTBRetrofit.zip**, to *C:\Program Files\S&C Electric\IntelliLink*: and extract the contents of the zip file to the same folder.

To extract the contents of **GTBRetrofit.zip** double click on the file to open the WinZip dialog as seen in Figure 2 on page 7.

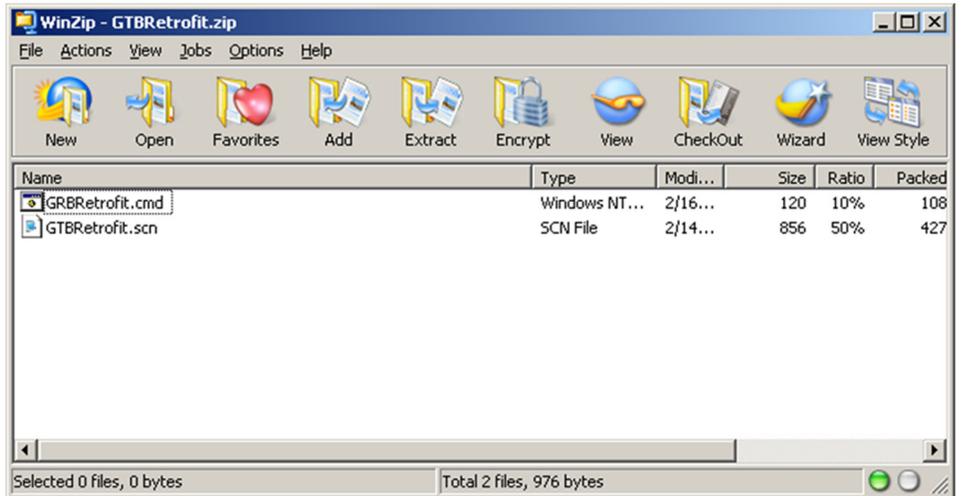


Figure 2. WinZip dialog box.

After opening the WinZip dialog box, click on the **Extract** button or *Actions Extract* from the file menu. The Extract dialog box will open. See Figure 3.

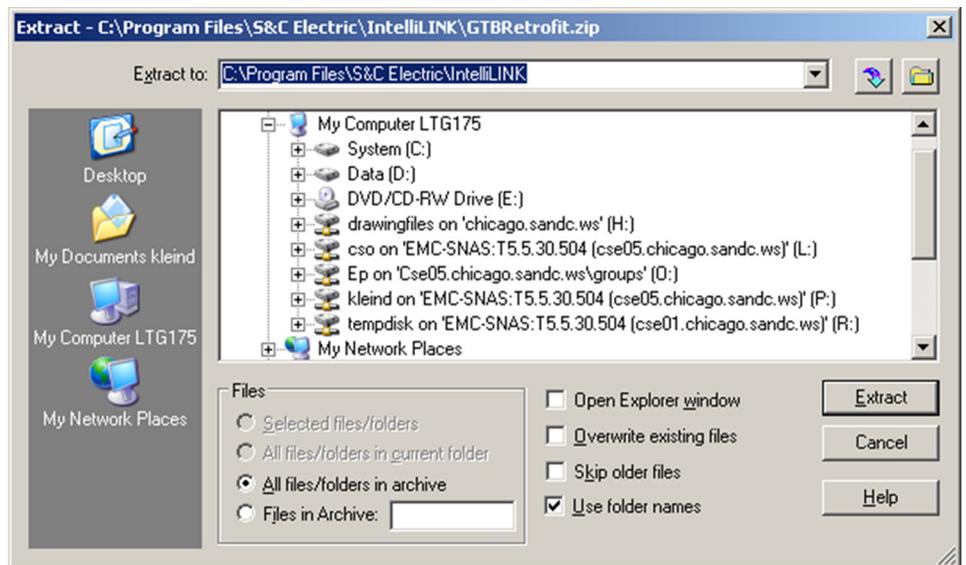


Figure 3. Extract dialog box.

Set the **Extract to:** field to *C:\Program Files\S&C Electric\IntelliLink* and click on the **Extract** button. Verify the folder *C:\Program Files\S&C Electric\IntelliLink* contains the files, **GRBRetrofit.cmd** and **GTBRetrofit.scn**.

Updating the Base Memory Module

Connect to the Control

Select *Start > Programs > S&C Electric > LinkStart > LinkStart*. The main screen will open. See Figures 4 and 5.

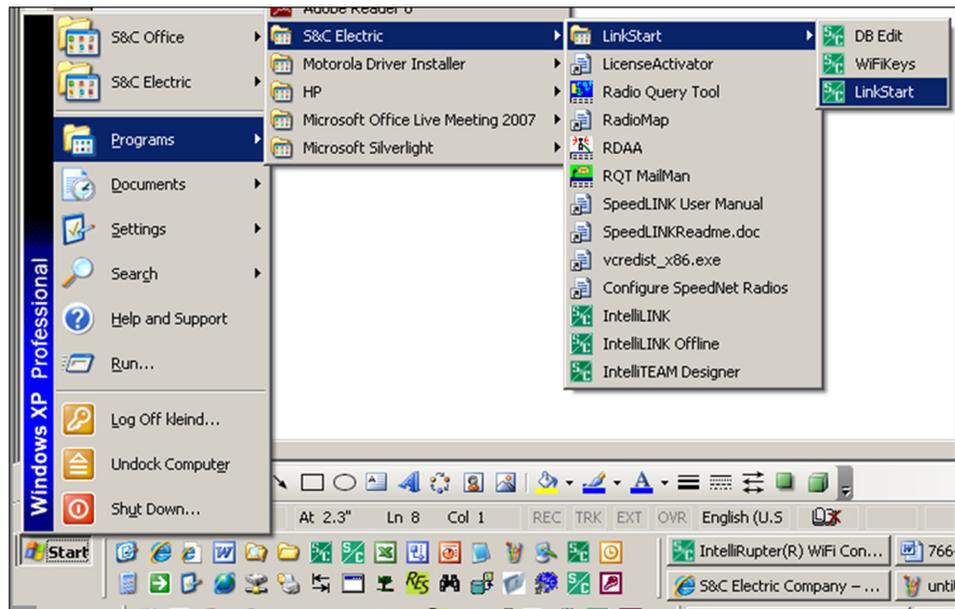


Figure 4. Starting the LinkStart program.

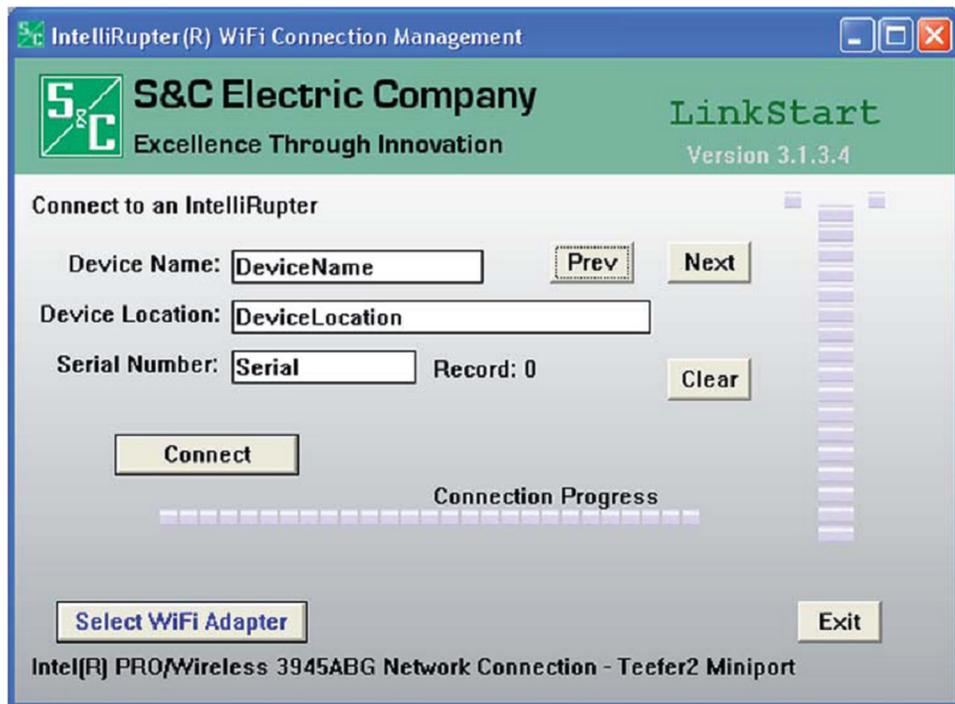


Figure 5. LinkStart main screen.

If your computer has more than one Wi-Fi adapter, click *Select Wi-Fi Adapter* and select the desired adapter from the list, by clicking on the number next to the adapter, and then click the **Done** button. See Figure 6.

Enter the IntelliRupter fault interrupter serial number in the *Serial Number:* text box and click **Connect**. See Figure 5 on page 8. Note that if the serial number database has been setup you can also use the **Prev** and **Next** buttons to scroll through the IntelliRupter fault interrupter list. For more information on the LinkStart main screen see S&C Instruction Sheet 766-571 page 19.

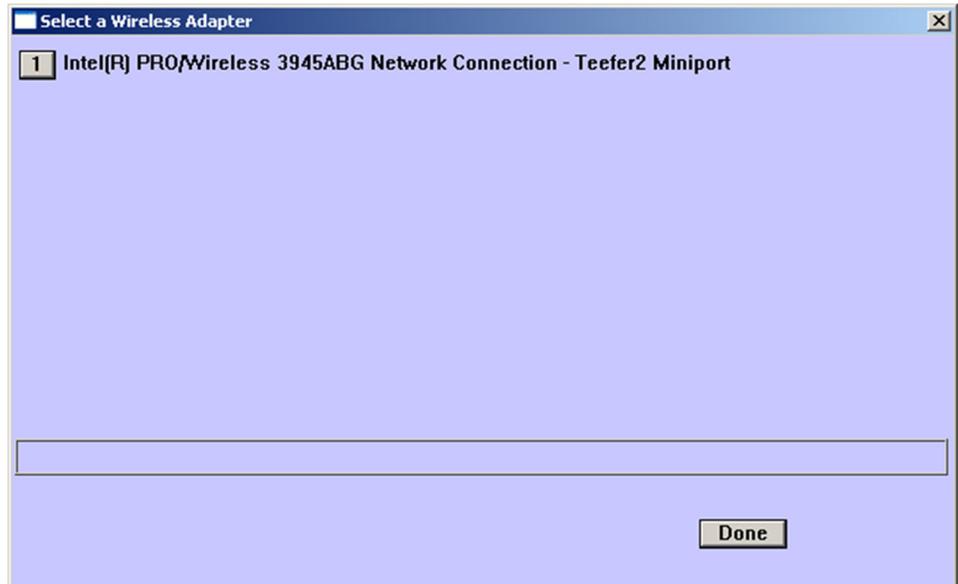


Figure 6. Wi-Fi Adapter selection screen.

Update

Select *Start > Run*. The **Run** dialog box will open. See Figure 7.

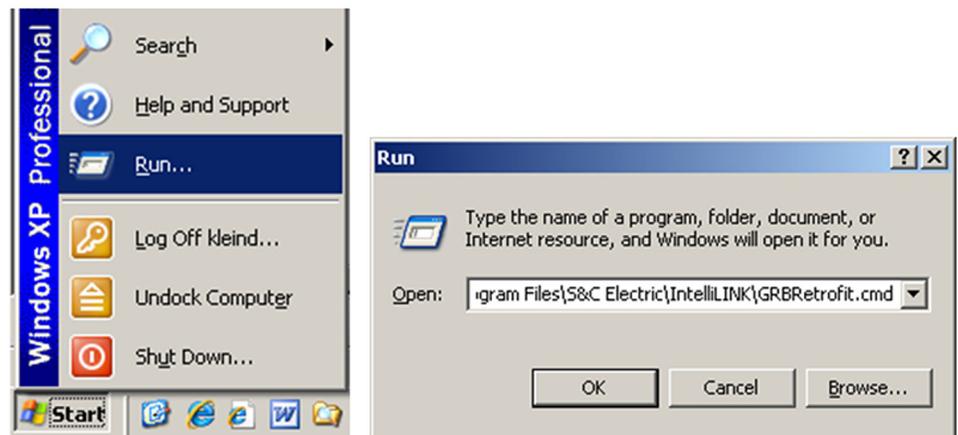


Figure 7. Run dialog box.

Type *C:\Program Files\S&C Electric\IntelliLink\GRBRetrofit.cmd* in the **Open:** text box.

Verify that LinkStart is connected and click the **OK** button. The S&C Control Software Loader will launch with a **Log On** dialog box. See Figure 8 on page 10.

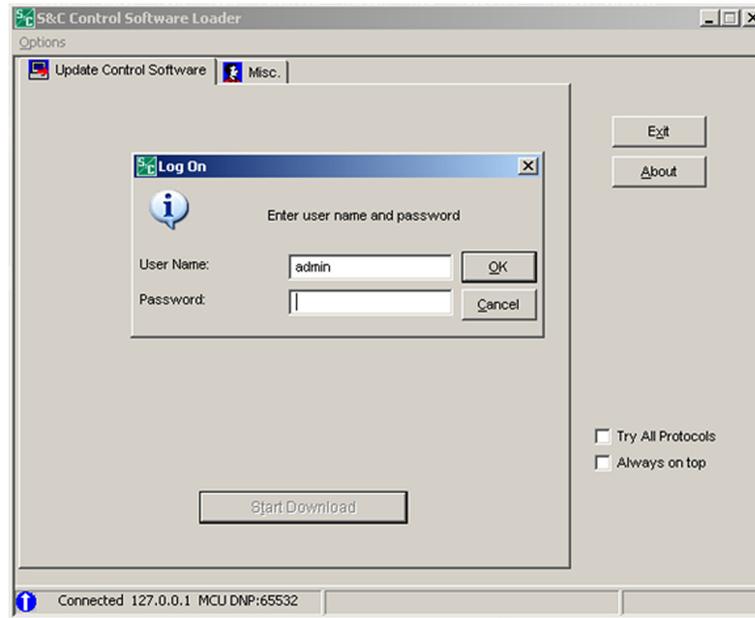


Figure 8. S&C Software Loader Log On dialog box.

Enter your User Name and Password, and click the **OK** button. The default entries are *User Name: admin*, and *Password: 1135Atlantic*. See Figure 8.

The upgrade script will automatically run and restart the MCU application. After the scrip has completed the **Log On** dialog box will reappear. See Figure 9. Re-enter your User Name and Password.

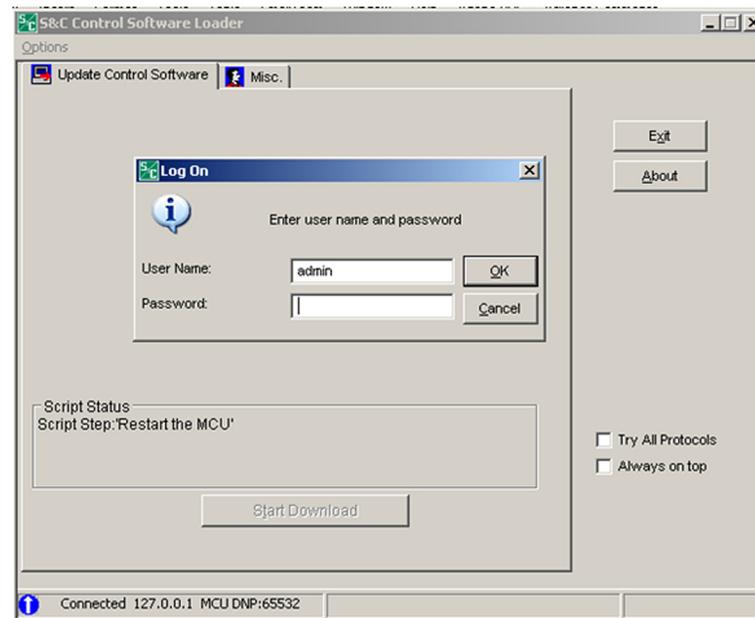


Figure 9. S&C Software Loader Log On dialog box.

The upgrade script will automatically close upon completion.

Connect to IntelliLink® Setup Software

Click the **IntelliLink** button on the *LinkStart* main screen. See Figure 10.

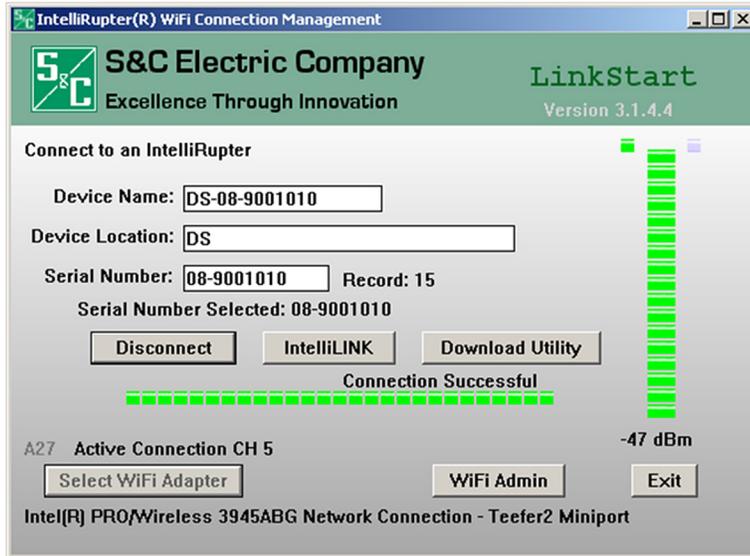


Figure 10. LinkStart main screen displays when connected.

The *S&C IntelliLink Login* dialog box will open. See Figure 11. Enter your User Name and Password, and click the **OK** button. The default entries are *User Name: admin*, and *Password: 1135Atlantic*.



Figure 11. S&C IntelliLink Setup Software Login dialog box.

Verifying Lever Operation

Setup

Select *Setup > General > User Commands*. See Figure 12. Verify there are four check boxes available for configuring GROUND TRIP BLOCK lever functionality.

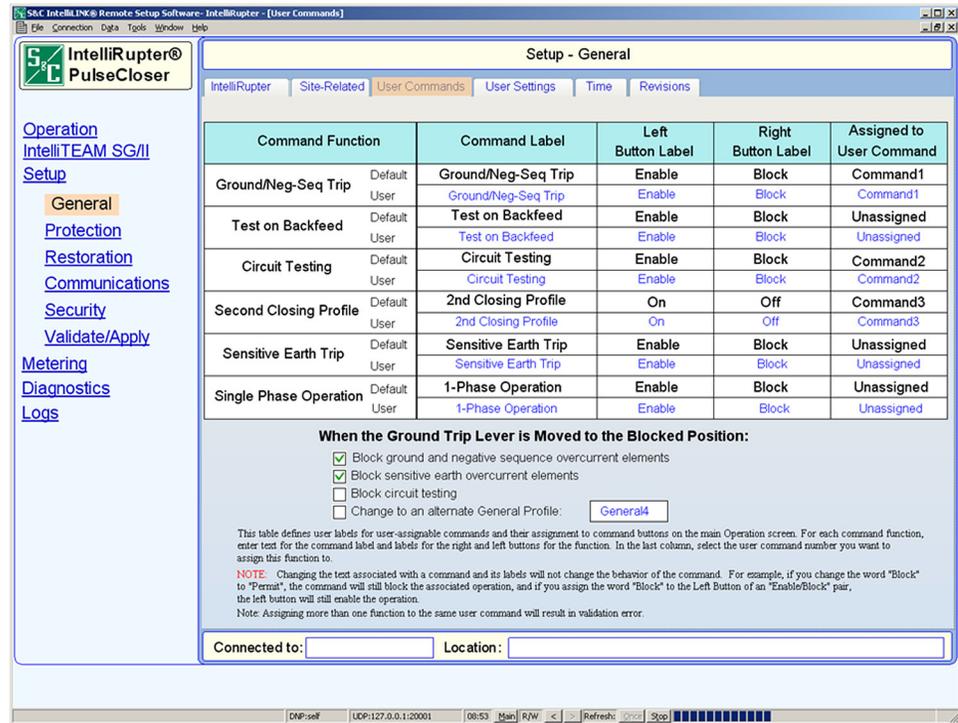


Figure 12. Setup > General > User Commands screen.

Select the desired check boxes to configure GROUND TRIP BLOCK lever functionality.

Go to the *Setup > Validate/Apply* screen. See Figure 13. Click on the **Validate** button. After validation has completed click on the **Apply** button.

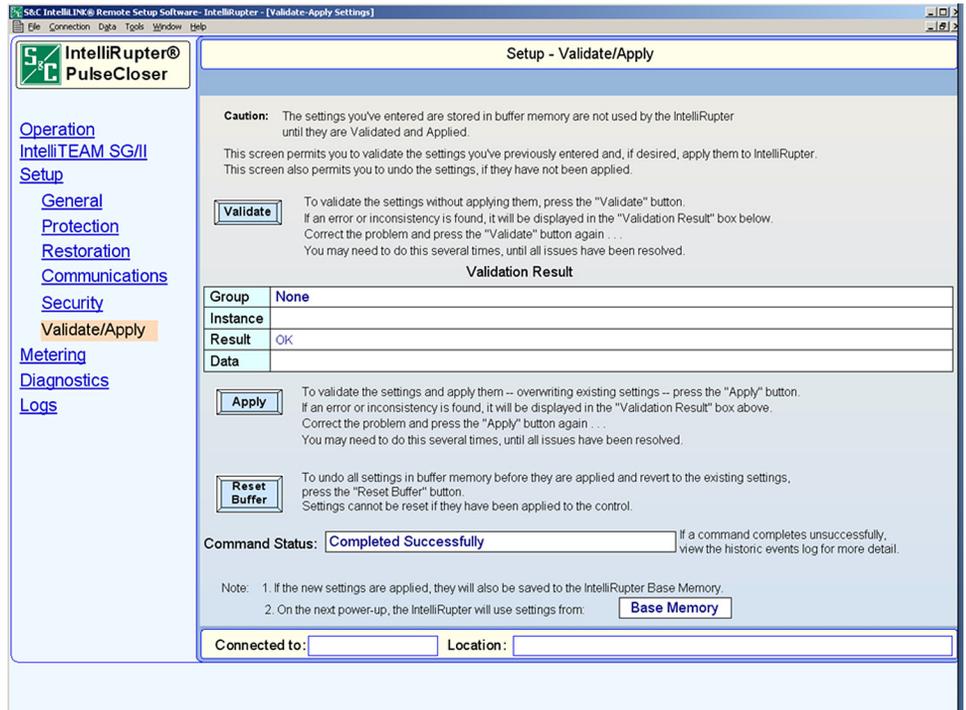


Figure 13. Setup > Validate/Apply screen.

Verifying Lever Operation

Verification

Make sure both levers are in the **Off** position and verify both the **Hot Line Tag** and **Ground Trip Block** indicators on the *Main Operation* screen indicate *Off*. See Figure 14, and Figure 15 on page 15.

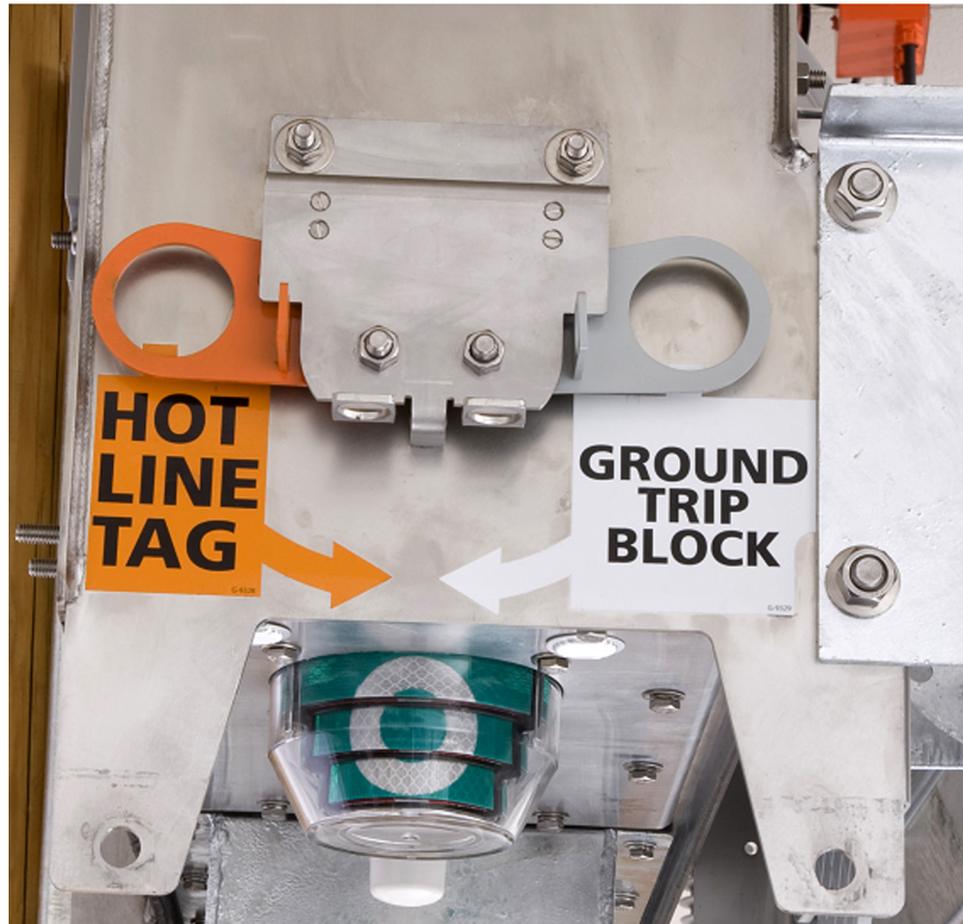


Figure 14. HOT LINE TAG and GROUND TRIP BLOCK levers in their Off position.

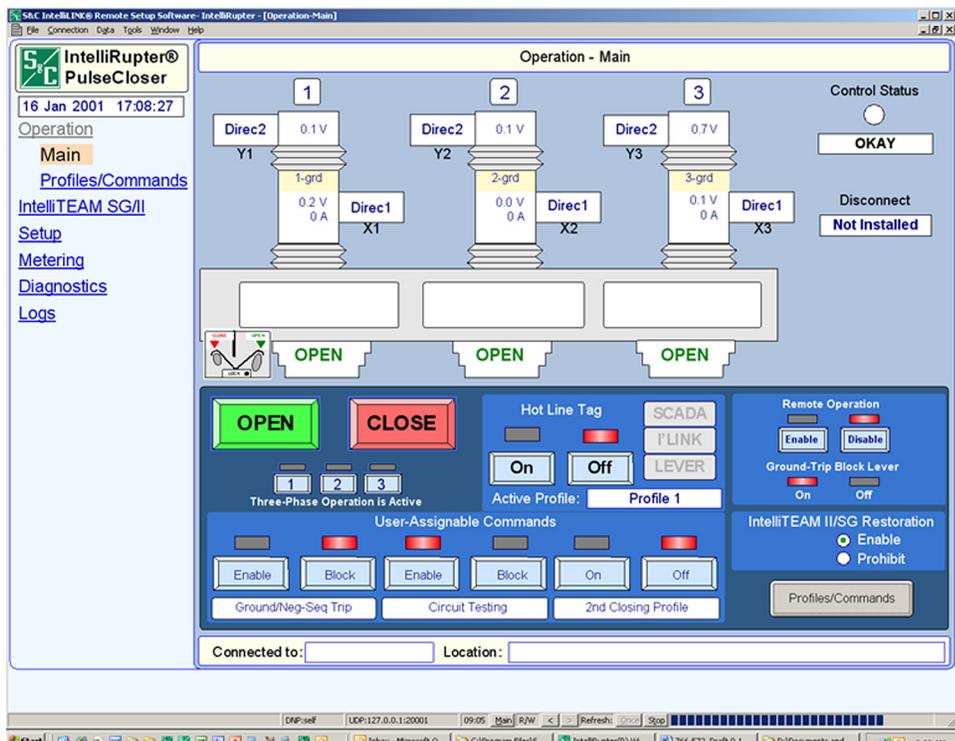


Figure 15. Hot Line Tag and Ground Trip Block indicated in the Off position.

While monitoring the **Operation** screen, shown in Figure 15, move the **GROUND TRIP BLOCK** lever into the **Blocked** position and verify that the **Ground Trip Block** indicator switches from **Off** to **On**.

Return the **GROUND TRIP BLOCK** lever to the **Off** position and move the **HOT LINE TAG** lever to the **Applied** position. Verify that the **Hot Line Tag** indicator switches from **Off** to **On**, and verify that the **Ground Trip Block** indicator has switched to **Off**.

