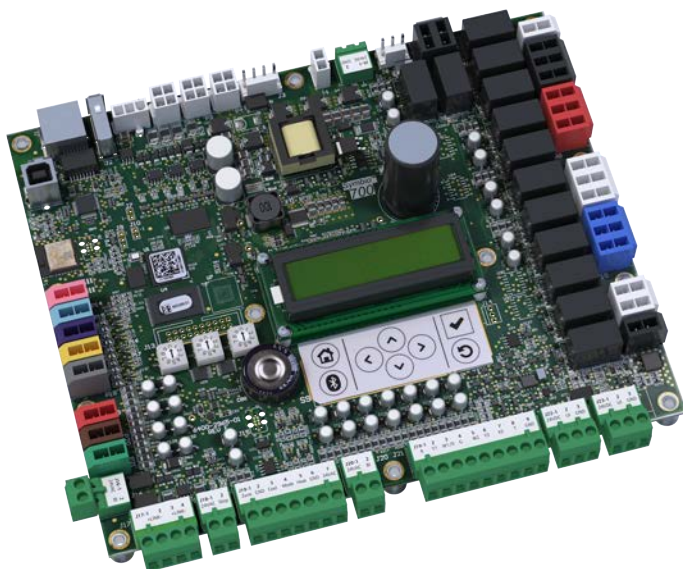




Installation Guide

Advanced Symbio™ 700 Controller Field Installed Kit

Used with Precedent™, Voyager™ 3, Axiom™
Rooftop, and Odyssey™ with Symbio 700 Controls



⚠ SAFETY WARNING

Only qualified personnel should install and service the equipment. The installation, starting up, and servicing of heating, ventilating, and air-conditioning equipment can be hazardous and requires specific knowledge and training. Improperly installed, adjusted or altered equipment by an unqualified person could result in death or serious injury. When working on the equipment, observe all precautions in the literature and on the tags, stickers, and labels that are attached to the equipment.

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ACC-SVN277B-EN

TRANE
TECHNOLOGIES™



Introduction

Read this manual thoroughly before operating or servicing this unit.

Warnings, Cautions, and Notices

Safety advisories appear throughout this manual as required. Your personal safety and the proper operation of this machine depend upon the strict observance of these precautions.

The three types of advisories are defined as follows:



WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION

Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury. It could also be used to alert against unsafe practices.

NOTICE

Indicates a situation that could result in equipment or property-damage only accidents.

Important Environmental Concerns

Scientific research has shown that certain man-made chemicals can affect the earth's naturally occurring stratospheric ozone layer when released to the atmosphere. In particular, several of the identified chemicals that may affect the ozone layer are refrigerants that contain Chlorine, Fluorine and Carbon (CFCs) and those containing Hydrogen, Chlorine, Fluorine and Carbon (HCFCs). Not all refrigerants containing these compounds have the same potential impact to the environment. Trane advocates the responsible handling of all refrigerants.

Important Responsible Refrigerant Practices

Trane believes that responsible refrigerant practices are important to the environment, our customers, and the air conditioning industry. All technicians who handle refrigerants must be certified according to local rules. For the USA, the Federal Clean Air Act (Section 608) sets forth the requirements for handling, reclaiming, recovering and recycling of certain refrigerants and the equipment that is used in these service procedures. In addition, some states or municipalities may have additional requirements that must also be adhered to for responsible management of refrigerants. Know the applicable laws and follow them.

⚠ WARNING

Proper Field Wiring and Grounding Required!

Failure to follow code could result in death or serious injury.

All field wiring **MUST** be performed by qualified personnel. Improperly installed and grounded field wiring poses **FIRE** and **ELECTROCUTION** hazards. To avoid these hazards, you **MUST** follow requirements for field wiring installation and grounding as described in NEC and your local/state/national electrical codes.

⚠ WARNING

Personal Protective Equipment (PPE) Required!

Failure to wear proper PPE for the job being undertaken could result in death or serious injury.

Technicians, in order to protect themselves from potential electrical, mechanical, and chemical hazards, **MUST** follow precautions in this manual and on the tags, stickers, and labels, as well as the instructions below:

- Before installing/servicing this unit, technicians **MUST** put on all PPE required for the work being undertaken (Examples; cut resistant gloves/sleeves, butyl gloves, safety glasses, hard hat/bump cap, fall protection, electrical PPE and arc flash clothing). **ALWAYS** refer to appropriate Safety Data Sheets (SDS) and OSHA guidelines for proper PPE.
- When working with or around hazardous chemicals, **ALWAYS** refer to the appropriate SDS and OSHA/GHS (Global Harmonized System of Classification and Labelling of Chemicals) guidelines for information on allowable personal exposure levels, proper respiratory protection and handling instructions.
- If there is a risk of energized electrical contact, arc, or flash, technicians **MUST** put on all PPE in accordance with OSHA, NFPA 70E, or other country-specific requirements for arc flash protection, **PRIOR** to servicing the unit. **NEVER** PERFORM ANY SWITCHING, DISCONNECTING, OR VOLTAGE TESTING WITHOUT PROPER ELECTRICAL PPE AND ARC FLASH CLOTHING. ENSURE ELECTRICAL METERS AND EQUIPMENT ARE PROPERLY RATED FOR INTENDED VOLTAGE.

⚠ WARNING

Follow EHS Policies!

Failure to follow instructions below could result in death or serious injury.

- All Trane personnel must follow the company's Environmental, Health and Safety (EHS) policies when performing work such as hot work, electrical, fall protection, lockout/tagout, refrigerant handling, etc. Where local regulations are more stringent than these policies, those regulations supersede these policies.
- Non-Trane personnel should always follow local regulations.

⚠ WARNING

Cancer and Reproductive Harm!

This product can expose you to chemicals including lead and bisphenol A (BPA), which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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Revision History

Removed Foundation™ from the document.



General Information

Overview

This field-installed kit is designed for use with the following units equipped with a fully operational basic Symbio 700 controller:

- Precedent™
- Voyager™ 3
- Odyssey™ units
- Axiom™ Rooftop

The purpose of this kit is to replace a basic Symbio 700 Controller to an advanced Symbio controller, providing enhanced controller capabilities such as advanced troubleshooting, communications, programming, and remote access.

Note: *This kit will not work with a failed Symbio 700 controller or if the unit does not have a Symbio 700 controller.*

For more detailed information on the Symbio 700 controller, see the *Symbio™ 700 Controller, User Guide* (BAS-SVU054*-EN).

Inspection

1. Unpack all components of the kit.
2. Check carefully for shipping damage. If any damage is found, report it immediately, and file a claim against the transportation company.

Parts List

- Advanced Symbio™ 700 Controller
- USB storage device
- Information label



Installation

Step 1: Download Latest Firmware

Before attempting to upgrade to the advanced board, confirm the latest available firmware is installed on the new controller.

1. Visit trane.com and download the latest firmware for the Symbio™ 700. Scan the QR code below for quick access.

Figure 1. Firmware download page



2. Copy the firmware to the USB storage device provided with this kit.
3. Confirm the firmware is located in the root folder of the USB drive and not in a subfolder. Symbio 700 only recognizes firmware in the root folder.

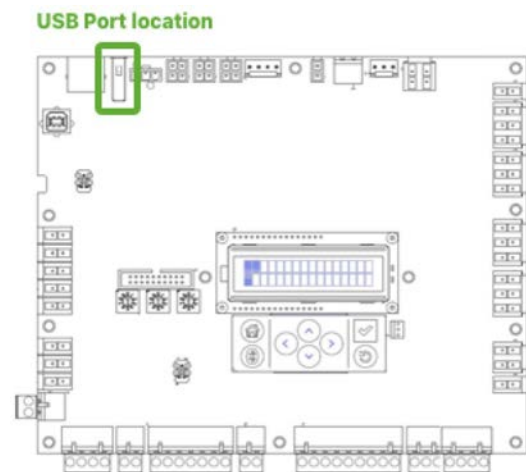
Note: If using Tracer® TU to upgrade the firmware, save a copy of the firmware to the local hard drive.

Step 2: Backup the Existing Controller

Method A: Use the Symbio Service and Installation App (preferred)

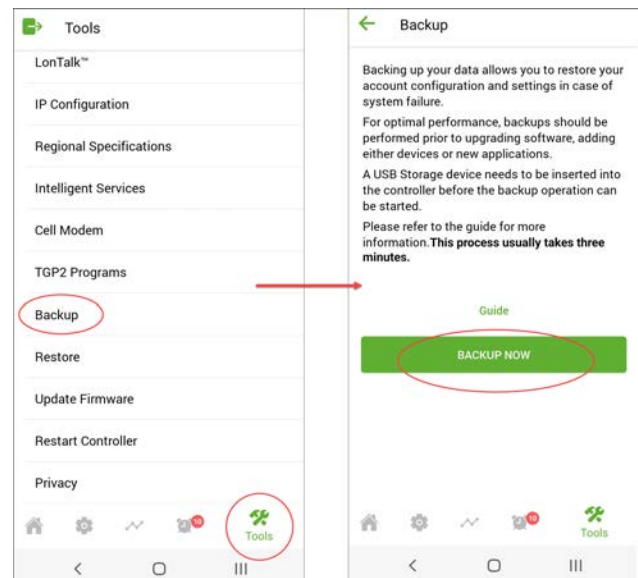
1. Insert the provided USB storage device into the existing Symbio 700 USB port J2.

Figure 2. USB J2 port location



2. Open the Symbio Service and Installation App. See *Symbio™ 700 Controller, User Guide* (BAS-SVU054*-EN) for more information on the app.
3. Connect to the Symbio 700 controller.
4. Select **Tools > Backup**.

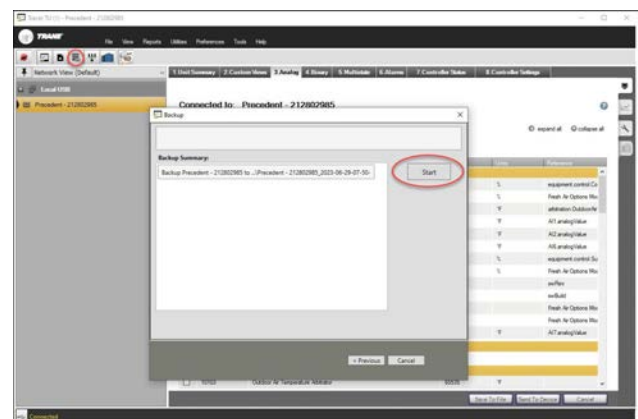
Figure 3. Backup controller



Method B: Use Tracer TU

1. Connect a laptop to the existing Symbio™ 700 controller using the USB service tool port P13 (USB port B).
2. Start Tracer TU on the laptop.
3. Connect to the local controller using the **Direct Connection** option.
4. Select **Utilities > Backup Utility** to perform a local backup of the unit.

Figure 4. Tracer TU Backup Utility screen



Step 3: Remove the Old Controller Board

⚠ WARNING

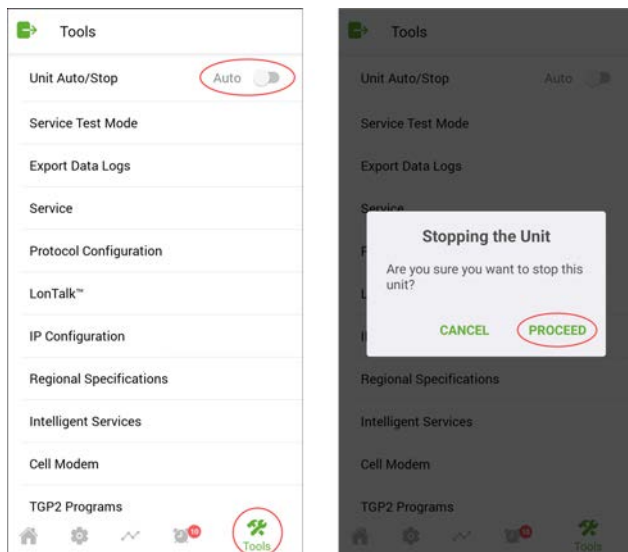
Hazardous Voltage!

Failure to disconnect power before servicing could result in death or serious injury.

Disconnect all electric power, including remote disconnects before servicing. Follow proper lockout/tagout procedures to ensure the power can not be inadvertently energized. Verify that no power is present with a voltmeter.

1. After successfully backing up the controller, navigate to **Tools**.

Figure 5. Manually stop unit



2. Toggle the **Unit Auto/Stop** setting to off.
3. Click **PROCEED** to confirm stopping the unit.
4. When the unit has stopped, disconnect and lock out power from the unit.
5. With the unit powered down, disconnect all factory Molex-style connectors on both sides and top of the board and the field terminals Phoenix-style connectors at the bottom of the original Symbio™ 700 controller board.
6. Unscrew all 10 screws and remove the existing board from the unit.

Step 4: Install the New Symbio 700 Advanced Board

1. With the unit still powered down, install the new Symbio 700 board in the exact same location where the original board was mounted.

Note: The Basic and Advanced Symbio 700 boards have the same dimensions and layout.

2. Reconnect the Molex-style connectors. Factory connectors are color coded. Match the color between wire harness and board connectors.
3. Reconnect the field terminals Phoenix-style connectors at the bottom of the controller.
4. Carefully inspect and confirm that ALL terminals are connected back to the new control board.

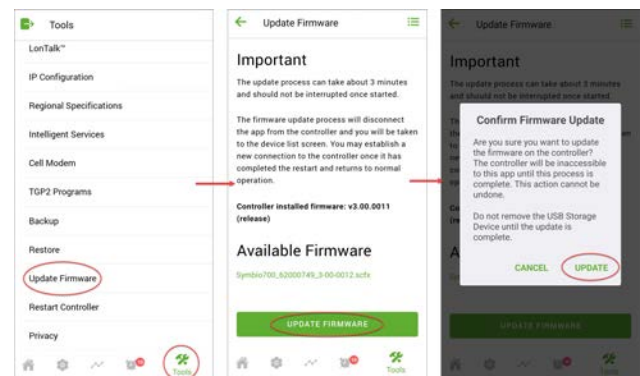
Step 5: Upgrade the New Symbio 700 Advanced Board Firmware

Important: Before attempting to restore the controller backup, confirm the latest available firmware is installed in the new Symbio 700 controller board.

Method A: Use the Symbio Service and Installation App (preferred)

1. Insert the provided USB storage device into the existing Symbio 700 USB port J2.
2. Using the Symbio Service and Installation App, connect to the new controller.

Figure 6. Firmware update navigation screens

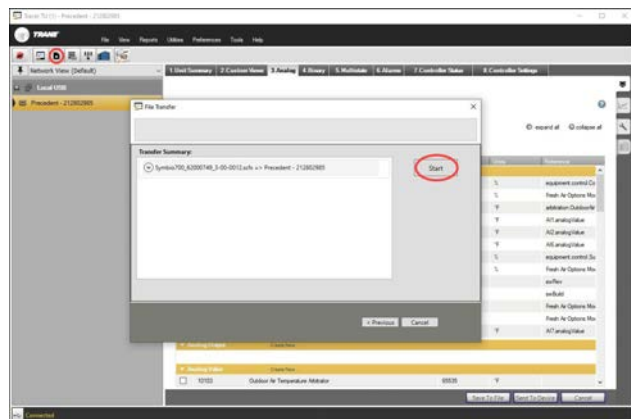


3. Navigate to **Tools > Update Firmware** and perform the firmware update on the new controller.

Note: Updating the controller firmware may take up to five minutes. During this time, the Bluetooth connection is lost and unavailable. Follow the update on the Symbio 700 onboard user interface.

Method B: Use Tracer TU

1. Connect a laptop to the existing Symbio™ 700 controller using the USB service tool port P13 (USB port B).
2. Start Tracer TU on the laptop.
3. Connect to the local controller using the **Direct Connection** option.
4. Select **Utilities > File Transfer Utility**.

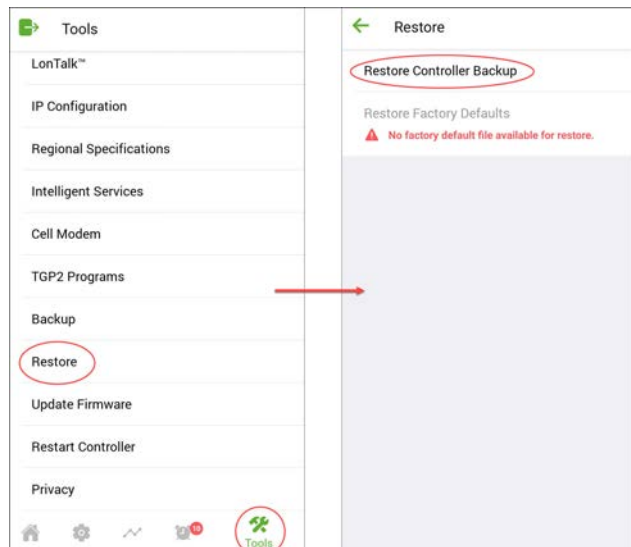
Figure 7. Tracer TU Transfer File Utility


5. Select the previously downloaded firmware file from the local drive and perform a firmware update.

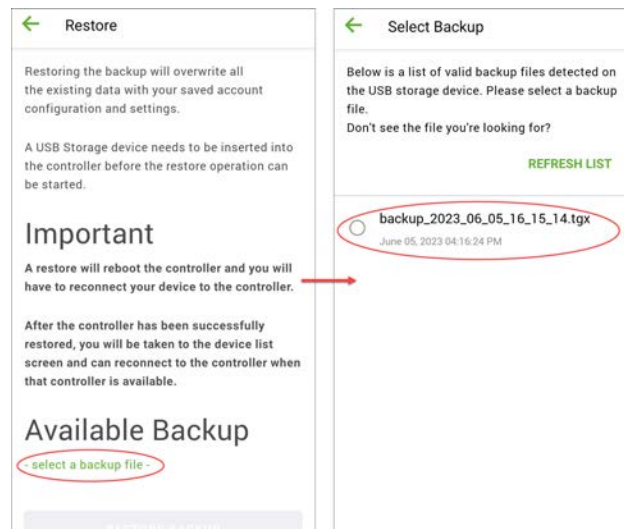
Step 6: Restore the Backup to the New Symbio 700 Advanced Board

Method A: Use the Symbio Service and Installation App (preferred)

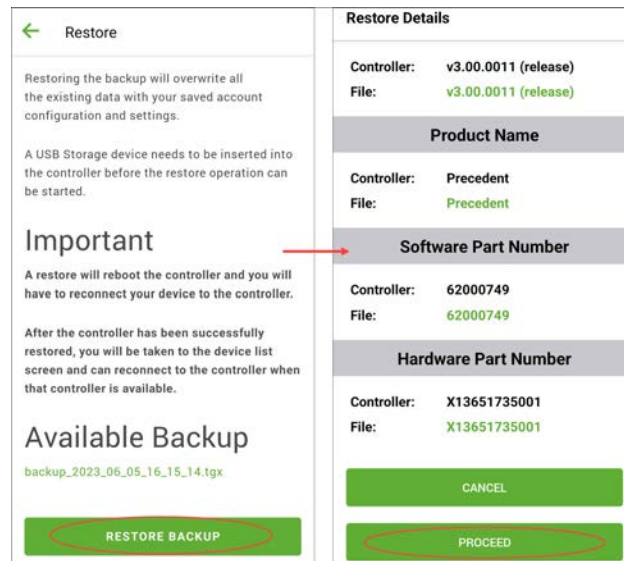
1. With the USB storage device still inserted in USB port J2, reconnect the new Symbio 700 Advanced board using the Symbio 700 Service and Installation App.
2. Navigate to **Tools > Restore**.
3. Select **Restore Controller Backup**.

Figure 8. Restore Controller Backup


4. Tap **select a backup file**.

Figure 9. Restore Controller Backup


5. Choose the backup file to restore.
6. Once the backup file is selected, the **RESTORE BACKUP** option is available. Tap **RESTORE BACKUP**.

Figure 10. Restore Controller Backup


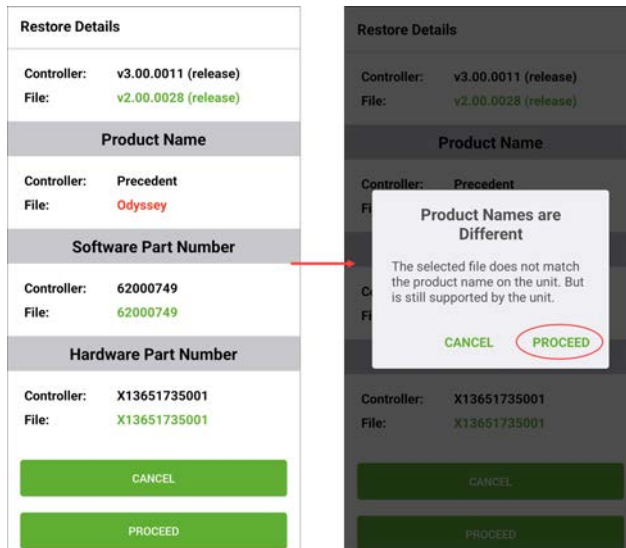
7. The Restore Details screen displays a comparison between the backup file and the new controller. Select **PROCEED** to continue the backup operation.
8. Once the backup is complete, tap **OK**.

Change Product Type

Important: All Symbio™ 700 boards are factory pre-configured as Precedent™ by default. Follow these steps to change the product type to a different piece of equipment (if appropriate).

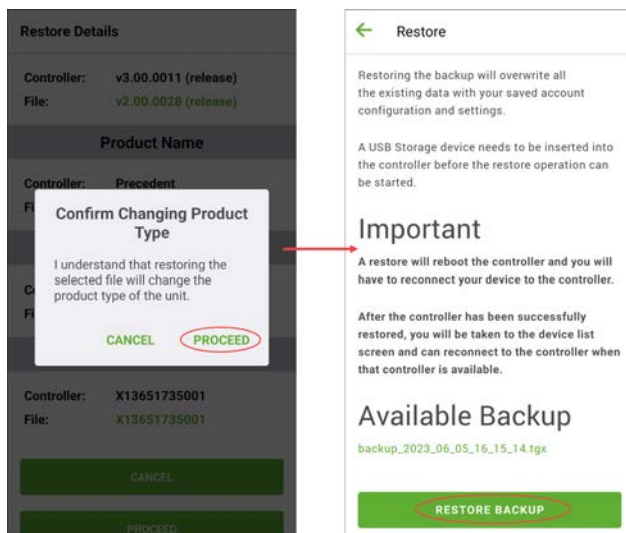
1. Verify the Product Name and tap **PROCEED**.

Figure 11. Confirm product name



2. Confirm the product type and tap **PROCEED**.

Figure 12. Confirm product type

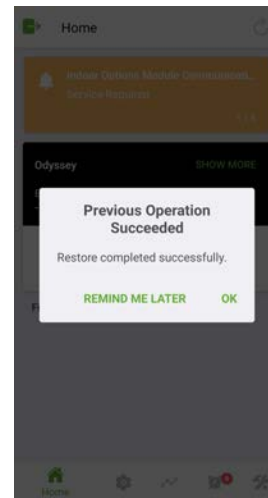


3. Tap **RESTORE BACKUP**.

Updating the controller firmware may take up to five minutes. During this time, the Bluetooth connection is lost and unavailable. Follow the update on the Symbio 700 onboard user interface.

Once completed, reconnect to the controller using the Symbio Service and Install app. The app will display the message **Previous Operation Succeeded**, indicating that the restore process was successful. At this point, the unit will resume normal operation, and the installation of the new Advanced Symbio 700 Controller is complete.

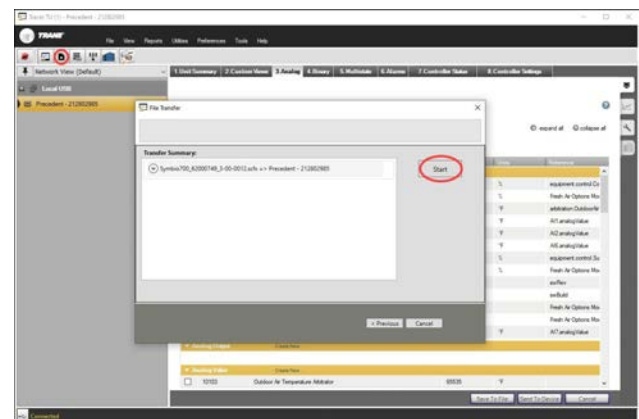
Figure 13. Backup restore complete



Method B: Use Tracer TU

1. After performing the firmware upgrade, navigate to **Utilities > Transfer File Utility**.

Figure 14. Tracer TU File Transfer Utility



2. Select the backup file to restore and click **Start**.

For additional information on editing configurations, visit the video referenced below.

Figure 15. Editing configurations video QR code





Notes

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Trane has a policy of continuous product and product data improvements and reserves the right to change design and specifications without notice. We are committed to using environmentally conscious print practices.