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S-Series ERI v12.1
Installation and Release Notes | **S-Series**

Green energy that works™

Version 1.0
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SECTION 1—GENERAL INFORMATION

About This Manual

The purpose of this manual is to describe the installation process of and the changes introduced in version 12.1 of the Endurance Remote Interface (ERI) software application. In particular, this manual will discuss the installation procedure and will detail the incremental changes made to the software in this release.

Please read this manual in its entirety prior to initiating the upgrade process.

Section 2—Overview provides an overview of the Endurance Remote Interface software.

Section 3—Installation/Upgrade Details outlines the installation procedure to install the application or to upgrade from an earlier version of the application to version 12.1. This section also addresses any special installation requirements, any compatibility issues, and/or any considerations to make before deciding to upgrade the software to version 12.1.

Section 4—Description of Changes describes the incremental changes introduced to the software in version 12.1 since the previous released version (12.0).

The information given in this procedure must be read carefully and applied rigorously. Failure to observe the information provided herein may result in risks to personal health and safety, as well as economic damages and voiding of the warranty.

All information, illustrations and specifications in this procedure are based on the latest information at the time of publication. Endurance Wind Power, Inc. reserves the right to modify, supplement and improve the manual, at any time without notice. Contact Endurance Wind Power, Inc. for the current version of this document.

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Requesting Technical Assistance

Technical assistance is normally provided by your local Endurance dealer. In the unlikely event that your dealer cannot provide a solution, you may contact Endurance Wind Power, Inc., directly via:

email: techsupport@endurancewindpower.com

phone: 1-866-WIND-823 (1-866-946-3823 - toll free in North America only)

+011-604-579-9462 (outside of North America)

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SECTION 2—OVERVIEW

The Endurance Remote Interface (ERI) is a software application which runs on a Windows-based personal computer (PC) and provides a human-machine interface to an S-Series turbine.

The ERI software provides a user with the ability to:
- monitor the vital statistics of the turbine (such as wind speed and rotor speed)
- control the turbine operation (i.e. enable or disable the turbine)
- collect historical data for analysis (such as historical wind speed records, event logs, and diagnostic information)
- update the firmware on the turbine

The Endurance Remote Interface is a user interface application only and is not the same as the software application which controls the turbine. The S-Series Firmware is the software application which is executed on the turbine and which is primarily responsible for the operation of the turbine. Specifically, the firmware is embedded software which resides on and is executed by the Rabbit BL2500 Single-Board Computer, the micro-controller housed inside the control panel.

The ERI runs on a PC and communicates with the micro-controller and firmware over a network connection. It receives status information from the micro-controller to display to the user and sends user commands to the micro-controller for execution.

Since the software is installed on a PC, it is specific to that PC and not to a particular turbine. A PC with the software installed can be used to connect to multiple turbines (though only one at a time, and only if network links to each turbine exist). Similarly, multiple different computers, each with the software installed, can be used to connect to the same turbine (again, though, only one at a time, with the same network link requirements).

Engineers at Endurance Wind Power are always working to improve the efficiency and reliability of, and the user-experience with, our turbines. New versions of both the ERI software and of the firmware are periodically released in alignment with these goals. These updates typically provide enhancements to the existing system and/or address issues identified with turbines in the Endurance Wind Power fleet.

SECTION 3—INSTALLATION/UPGRADE DETAILS

Important Notes

Please review this section for important notes and special considerations which must be made before initiating the upgrade to version 12.1.

S-Series Firmware Compatibility
The ERI is released in conjunction with S-Series Firmware version 9.2.6 (which includes the variant version 9.2.7; please refer to S-Series Firmware v9.2.6 Release and Install Manual for more details on firmware variants).

In order to communicate to a turbine running version 9.2.6 of the firmware, you must use version 12.0 (or later) of the Endurance Remote Interface. However, the Endurance Remote Interface is backwards compatible with respect to the firmware, meaning that you can use version 12.1 to communicate with older firmware versions (versions 9.2.4 and later of the firmware are officially supported).

The compatibility between currently supported versions of the ERI and the S-Series firmware is summarized in the Table 1. Earlier versions of both products are no longer supported by Endurance; it is recommended to upgrade to the most recent version available.

Windows Compatibility
Version 12.1 of the ERI software is compatible with the following versions of Microsoft Windows:

- Windows XP
- Windows Vista
- Windows 7

Installation Procedure

Follow the steps in this section using the Windows-based computer on which you intend to run the ERI, or on which you are already running an older version that you would like to upgrade to version 12.1.

Table 1. Firmware compatibility matrix

Firmware Version	ERI v11.4	ERI v12.0	ERI v12.1
8.1.8	✓	✓	✓
8.1.9	✓	✓	✓
9.2.4	✗	✓	✓
9.2.5	✗	✓	✓
9.2.6	✗	✓	✓
9.2.7	✗	✓	✓

Uninstall Previous Version

If you have a previous version of the Endurance Remote Interface installed, you will need to uninstall it before installing the new version. If you do not have a previous version installed, you can proceed directly with Section 3.2.2.

1. Click **Start>Control Panel** and select **Add or Remove Programs** (Windows XP) or **Programs and Features** (Windows Vista or Windows 7).

2. In the list of programs, locate and select **Endurance Remote Interface** (or similar) and click **Uninstall** to launch the uninstaller wizard. The uninstaller wizard should appear.
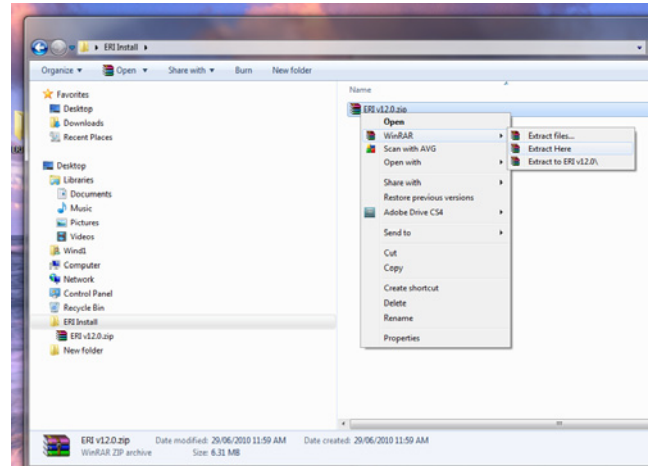

3. Follow the prompts in the uninstaller wizard to uninstall the application.

Occasionally during the uninstalling process, warning messages which do not actually impact the success of the application are displayed. Should you see such messages, simply acknowledge them (by clicking 'OK') or ignore them (by clicking 'Ignore') and continue. If you are uncertain if the uninstall was indeed successful, you can confirm this by refreshing or reopening the program list in the **Add or Remove Programs** (for Windows XP) or **Programs and Features** (Windows Vista or Windows 7) and confirming the application is no longer in the list.
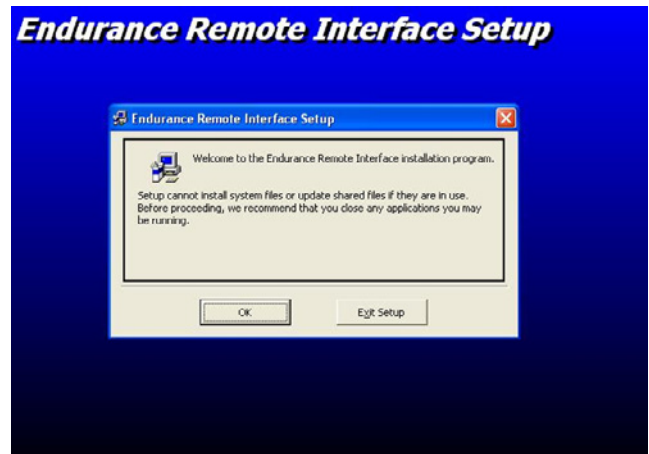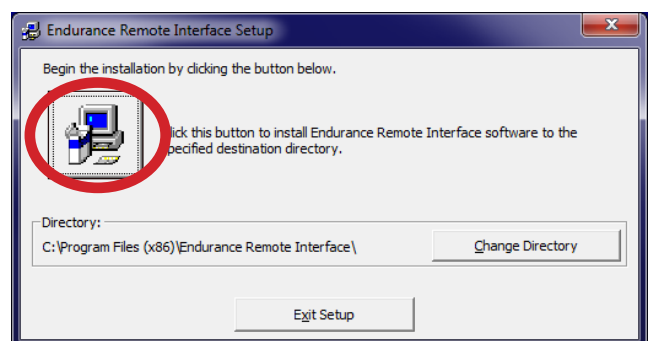
Install Version 12.1

1. Go to http://www.endurancewindpower.com/dealer-portal/s-series-product-information/interface-control-software/ in order to download a ZIP archive which contains the installation software for version 12.1 of the Endurance Remote Interface.

2. Extract the ZIP archive to a single folder on your Windows PC in an easily accessible location, such as your Desktop.

3. Double-click the executable file setup.exe, which was extracted from the ZIP archive and saved to your PC as detailed above. The installation wizard should appear.
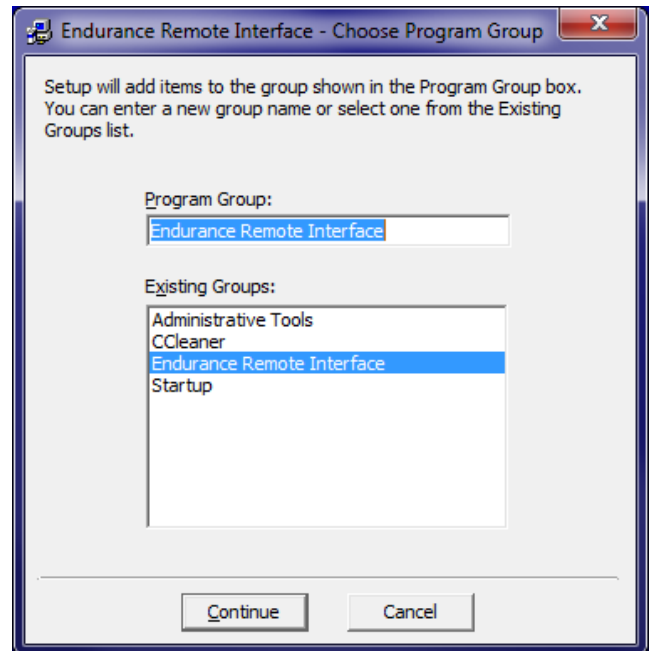

4. Select the location on your drive where you want the ERI software installed to (by default the location is set to C:\Program Files\Endurance Remote Interface\) and click the install button (highlighted in red at right).
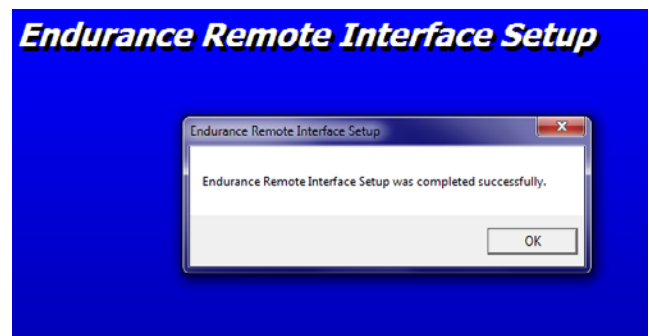
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5. Define the name of the program group (by default it is set to **Endurance Remote Interface**) and select a group to add it into. Once this is done, click 'Continue'.

6. Once the install is complete, click 'OK'.

This completes the install of the ERI software. If at anytime there were problems with the install, follow the steps to remove the ERI software in 'Uninstall Previous Version' and try reinstalling the ERI software using these steps. If you are still not successful, contact Endurance Technical Support.

SECTION 4—DESCRIPTION OF CHANGES

This section contains a description of the new features to the S-Series ERI software in version 12.1.

New Features and Enhancements

HSS Readout
The ERI now displays HSS sensor data within the ERI main display window. In the upper right-hand area of the main display window, there are two RPM values displayed:
- RPM-L indicates the current LSS RPM speed.
- RPM-H indicates the current HSS RPM speed.

Standardized Window Minimization
The ERI window will now minimize to the Task Bar when the window is minimized. Note: the ERI will no longer display an icon in the System Tray when the ERI window is minimized; window minimization is only to the Task Bar.