
CAE End-User License Agreement

END-USER LICENSE FOR CAE'S HEALTHCARE EDUCATION PRODUCTS (THE "PRODUCT(S)") THIS IS A LEGAL AGREEMENT. PLEASE READ THIS DOCUMENT CAREFULLY.

The software you are about to access is provided to you pursuant to the purchase of the Product by the legal entity which employs you, or which you represent (the "Licensee" or You"), from CAE, Inc., a corporation having a place of business in Sarasota, Florida, USA. This purchase of the Product is subject to CAE's Healthcare Education Products General Terms and Conditions (the "HEPGTC") and this End-User License agreement ("License").

This License governs the grant of licenses for the software, in object code only, embedded in or bundled with the Product or required to operate the Product, as the case may be ("Software"), as well as all related Product documentation and information ("Data") supplied by CAE either with or separately from the Product, which items as indicated in the HEPGTC are not sold but licensed.

Acceptance of these terms and conditions must be without modification of any of the terms, conditions and notices contained herein.

Consequently, please be sure to read the terms of this License carefully.

If You agree to these terms, conditions and other provisions in their entirety, then click the "ACCEPT" button below.

If You do not accept these terms, conditions and other provisions in their entirety, without modification of any sort, then click the "DECLINE" button below and your access to the Software and Data is prohibited.

1. Definitions and Interpretation

1.1 The preamble forms an integral part of this License.

1.2 Terms with a capital letter defined in the Preamble have the meaning indicated in the Preamble. Whenever used in this License, the following terms have the meaning set out below:

(a) "Confidential Information" means any and all scientific and technical information which is in the possession of, or belonging to, CAE and relating to the Product, including without limitation, all Data, Software, trade secrets, know-how, processes, methodologies, samples, components, analyses, compilations, guides and other information or documents prepared by CAE, its subsidiaries and affiliates and/or their officers, servants, agents, representatives, employees or advisers which contain or are otherwise generated from or reflect any CAE proprietary information, whether or not covered by intellectual property rights or explicitly designated as confidential or proprietary, which is disclosed by any means in written, oral, electronic, or any other form.

(b) "Purpose" means the use of the Software and the Data solely for the operation and maintenance of the Product, and the use of the Product solely as an educational tool.

2. License

2.1 In consideration of Licensee's agreement and compliance with the terms and conditions contained in the HEPGTC and in this License, CAE grants to Licensee, and Licensee accepts, a personal, non-exclusive, non-transferable license to use the Software and Data exclusively with the Product, and with the computer on which this License appears.

2.2 Except for the License granted herein, CAE grants no express or implied right under any patent, copyright, mask work right, trademark, know how or other intellectual property rights. Without limiting the foregoing, the Licensee shall not obtain any rights to CAE's property, or any part thereof, by implication, estoppel or otherwise. Title to and full ownership of any trade secrets and other intellectual property rights related to the Product and components thereof shall remain with CAE and, if applicable, its suppliers. For clarification, Licensee agrees that the source code for the Software is a trade secret of CAE and only CAE shall have the right to alter, maintain, enhance or otherwise modify the Software.

2.3 Without limiting the foregoing or any other terms in this License, Licensee shall, and shall ensure that any person authorized to access the Product, which are limited to Licensee's employees, agents, representatives, medical staff and students ("Authorized Users"):

(a) not copy (save and except for normal back up and disaster recovery purposes provided such copy shall include CAE's copyright and any other proprietary notices indicated on the Software and Data), ghost, export or produce any derivative works from the Product, or any part thereof, not network the Product without CAE's prior written approval, or make it available for concurrent use;

(b) not sell, attempt to sell or transfer (unless in compliance with the HEPGTC), sublicense, encumber the Software or Data;

(c) not modify the Product in any way, combine with other programs, or reverse engineer, screen scratch, decompile or disassemble any Software nor otherwise attempt to create or derive the source code related thereto;

(d) not deface or remove any copyright or proprietary notices;

(e) not use the Product without the Key, if provided with the Product, or attempt to develop or develop any means or technology which would enable Licensee to bypass the use of the Key to operate the Product;

(f) prevent anyone other than Authorized Users from accessing or using the Product;

(g) not incorporate the Product, in whole or in part, to any product or service that Licensee would make available to a third party, on a commercial basis or not.

2.4 Notwithstanding anything else contained in this License, in no event shall Licensee use the Product and/or Confidential Information to enable, support, or otherwise aid Licensee or a third party to develop any product, software or service competitive with any of CAE's products.

2.5 Licensee agrees to grant CAE, its agents and representatives, at any time during Licensee's normal business hours and upon reasonable prior notice, the right to access to Licensee's premises, to ensure that the use of the Product is done at all times in compliance with the terms and conditions of this License.

2.6 CAE reserves the right to embed a software security mechanism within the Product to monitor usage of the Product to verify Licensee's compliance with this Agreement, as well as to control access to the Software through use of: a) a hardware lock device and/or b) a license administration software and/or c) a license authorization key (collectively, the "Key").

2.7 Some Products may provide Licensee with the option of saving and reproducing the images created by such Products ("Work") during their use. In this regard, Licensee hereby recognizes that the entire rights, title and interests in and to such Work remain the exclusive property of CAE. Licensee shall not modify such Work in any way whatsoever and shall not remove or alter any CAE notices. However, Licensee is permitted to produce and reproduce such Work only for non-commercial educational purposes.

3. Feedback

Licensee agrees to provide CAE, from time to time, with comments, suggestions, data, information or feedback ("Feedback") on the Product. Licensee acknowledges and agrees that such Feedback may be freely used by CAE, at its sole discretion, for the design, development, improvement, marketing and commercialization of its products and services, without any restrictions based on confidentiality or intellectual property rights.

4. Term and Termination

4.1 This License shall become effective as of the date of Your execution of this License and shall remain in effect until terminated as provided hereafter.

4.2 This License terminates immediately upon termination of the HEPGTC.

4.3 CAE may terminate this License immediately, upon written notice, should Licensee:

(a) fail to comply with any of the terms and conditions of this License;

(b) terminate or suspend its business; make an assignment for the benefit of creditors, or any proceedings are instituted by any party or against it seeking to declare it bankrupt or insolvent, or seeking liquidation, winding-up, reorganization, arrangement, adjustment, protection, relief or composition of its debts under any law relating to bankruptcy, insolvency, reorganization or relief of debtors, or seeking the entry of an order for relief or the appointment of a receiver, trustee or other similar official for it or for any substantial part of its property;

4.4 Upon termination of this License, Licensee agrees to immediately discontinue use of the Confidential Information and the Product, and to return same to CAE as well as any copies, summaries or extracts thereof, with any associated CD ROM(s), DVD, keys, dongles or other devices as may be directed by CAE. At CAE's request, Licensee shall promptly provide a written certificate signed by an officer of Licensee confirming that such items have been returned to CAE or destroyed as so directed by CAE.

4.5 The following shall survive and continue in full force and effect notwithstanding any termination of this License: the obligations of Licensee under Sections License, Non-Disclosure; as well as any other clauses which by their nature and context are intended to survive.

5. Non-Disclosure

5.1 Licensee agrees to keep this License and all Confidential Information obtained hereunder in strict confidence, and shall only disclose same a) to Authorized Users solely for the Purpose and provided such access to the Product conforms, at all times, to the terms and conditions governing the use of the Product contained herein, or b) if required to be disclosed by law, and only to the extent of such disclosure and limited to the purpose requested, with prior notice to CAE to permit it to seek an appropriate remedy to prevent the disclosure, or alternatively to agree to the terms of such disclosure.

5.2 The obligations of confidentiality, use and non-disclosure referred to in this Section shall not apply to information which: (i) is or becomes publicly available through no fault of Licensee; (ii) was already in the rightful possession of Licensee prior to its receipt from CAE; (iii) is independently developed by Licensee, provided it is not, in whole or in part, related to the Product; and (iv) is obtained by Licensee in good faith and on a non-confidential basis and without a use restriction from a third party who lawfully obtained and disclosed such information. However, Confidential Information does not come within the foregoing exceptions merely because features of it may be found separately or within a general disclosure in the public domain.

5.3 Licensee agrees to be responsible for enforcing the terms of this Section Non-Disclosure and to take such action, legal or otherwise, to the extent necessary to cause anyone having access to the Confidential Information to comply with the terms and conditions set forth herein (including all actions that Licensee would take to protect its own trade secrets and confidential information but with not less than reasonable care). Licensee shall be responsible and indemnify, defend and hold harmless CAE for any default caused by any such persons.

6. Irreparable Harm

6.1 Licensee acknowledges that the Software and Data constitute a special, irreplaceable asset of great value to CAE, and that a breach, in any way, of any of Licensee's obligations under Sections License, and Non-Disclosure hereof would cause serious and irreparable harm to CAE which may not be adequately compensated for in damages. If the Licensee breaches any of such provisions, Licensee consents to an injunction being issued against it restraining it from any further breach of such provision, without derogation from any other remedy which CAE may have in the event of such a breach.

7. Warranty, Limitation of Liability

7.1 THE SOLE WARRANTIES PROVIDED BY CAE ARE LIMITED TO THE WARRANTIES PROVIDED IN THE HEPGTC. ANY WARRANTIES PROVIDED ARE PERSONAL AND NOT TRANSFERABLE.

7.2 CAE'S LIABILITY SHALL IN NO CIRCUMSTANCES EXCEED THE LIMITATION OF LIABILITY INDICATED IN THE HEPGTC. LIABILITY, IF ANY, SHALL BE SOLELY FOR DIRECT DAMAGES, NOT TO EXCEED ON A CUMULATIVE BASIS THE AMOUNT PAID BY LICENSEE FOR THE PRODUCT.

8. Governing Law

8.1 This Agreement shall be governed by, subject to, and interpreted according to the laws of the State of Florida, U. S. A., without regard to its conflict of law rules. In all cases, the Parties expressly exclude and waive the application of the United Nations Convention on Commercial Agreements for the International Sale of Goods (1980) (Vienna Sales Convention) as amended.

8.2 The exclusive forum for the resolution of any and all disputes arising out of or in connection with this Agreement shall be a court of appropriate jurisdiction located in the State of Florida, U.S.A. Each Party hereby waives any right that it might otherwise have to object to such venue or seek dismissal of the action on the basis of forum non-conveniens. EACH PARTY HERETO IRREVOCABLY WAIVES, TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, ANY AND ALL RIGHT TO TRIAL BY JURY IN ANY LEGAL PROCEEDING ARISING OUT OF OR RELATING TO THIS AGREEMENT.

8.3 Notwithstanding the foregoing, if a party seeks injunctive proceedings to preserve confidentiality obligations or intellectual property rights, then it is entitled to seek relief before the competent court/body of any jurisdiction.

9. Miscellaneous

9.1 United States Government Customer: If Licensee is the United States Government ("U.S. Government") or a unit or agency of the U.S. Government, the Software and Data are deemed to be "commercial computer software" and "commercial computer software documentation", respectively, pursuant to DFAR Section 227.7202 and FAR Section 12.212 b) as applicable. Any use, modification, reproduction, release, performance, display, or disclosure of the Software and/or Data by the U. S. Government, or any of its units or agencies shall be governed solely by the terms of this License and the HEPGTC. Any technical data provided by CAE with the Product that is not covered by the above provisions is deemed to be "technical data-commercial items" pursuant to DFAR Section 252.227.7015(a).

9.2 Amendment. This License may only be amended by the duly authorized representatives of CAE.

9.3 No Waiver: The failure of CAE to enforce at any time any of the provisions of this License, or to require at any time the performance by Licensee of any of the provisions hereof, shall not be construed to be a waiver of such provisions, nor in any way affect the validity of this License or any part thereof, or the right of CAE thereafter to enforce any such provision.

9.4 No third-party beneficiaries. Nothing in this Agreement shall be construed as creating or giving rise to any rights for any third parties or any persons other than the parties to this Agreement.

9.5 Notices: Notices or communications pertaining to this Agreement must be given in writing and delivered to the addressee as indicated in the HEPGTC.

9.6 Preamble/Headings. The preamble forms an integral part of this Agreement. The division of this Agreement into Clauses, Articles, sections, subsections and other subdivisions and the insertion of headings are for convenience of reference only and will not affect the construction or interpretation of this Agreement.

9.7 Severability. If any one or more of the provisions of this License shall be held to be invalid, illegal or unenforceable, the validity, legality or enforceability of the remaining provisions of this Agreement shall not in any way be affected or impaired thereby.

9.8 Assignment and Succession. Licensee may not assign or delegate this Agreement in whole or in part, expressly or by operation of law, without CAE's prior written consent. CAE may assign this Agreement, in whole or in part, and/or its rights and obligations, in CAE's sole discretion, to any party. This Agreement shall be binding upon and enure to the benefit of the parties hereto and their permitted successors and assigns. Any assignment of this Agreement, or any license granted herein, in violation of the provisions of this Section shall be void.

9.9 Entire Agreement. This License constitutes the complete agreement of the parties with respect to the subject matter referred to herein, and supersede any other agreements, written or oral, concerning the subject matter hereof.

9.10 Language. The parties declare that they have requested and hereby confirm their express wish that this License, and related agreements and documents be drawn up in the English language and that any notification, letter or any other communication from a party to the other pertaining thereto shall be solely in the English language.

PROPRIETARY NOTICE: This document, including the information contained herein is confidential and/or proprietary to CAE Inc., and shall not be reproduced or disclosed in whole or in part, or used for any purpose whatsoever unless authorized in writing by CAE Inc. Information on copyright and trademarks.

SYSTEM SPECIFICATIONS

Hardware	
Equipment	<p>Two 22" flat LCD touchscreen monitors</p> <p>Haptics device</p> <p>Scope holder</p> <p>Dual foot pedal</p>
Dimensions	<p>40.5" W x 35" D x 72" H (Adjustable)</p> <p>103cm W x 89cm D x 183cm H (Adjustable)</p>
Weight	245 lb (111 kg)
Electrical	<p>100-120 V, 50-60 Hz, 10A</p> <p>200-240 V, 50-60 Hz, 5A</p>
Storage Temperature	-40 °C to +65 °C (-40 °F to +149 °F)
Storage Humidity	20% to 80% without condensation
Operating Temperature	10 °C to 32 °C (50 °F to 90 °F)
Operating Humidity	20% to 80% without condensation

CAUTIONS AND WARNINGS

Please read and understand these cautions and warnings before you begin using the simulator.

Operations

- Do not operate your equipment with any covers removed
- Do not use your equipment in a wet environment. Protect equipment for liquid intrusion
- Do not put any object on top of the bottom platform. Movement of the lift mechanism can cause crush hazard, resulting in possible bodily injuries and damaged equipment.
- Do not jam the motor lift mechanism onto an object. This is a misuse and subjects the motor to burn out. It can also result in possible bodily injuries and damaged equipment.

Ergonomics

- Tip-over hazard: Do not move your equipment without fully lowering the lift mechanism. Failure to do so can result in possible bodily injury and damaged equipment.
- Improper or prolonged keyboard use may result in injury
- Viewing a monitor screen for extended period of time may result in eye strain

TABLE OF CONTENTS

CAE End-User License Agreement	i
System Specifications	vii
Cautions and Warnings	ix
Operations.....	ix
Ergonomics.....	ix
Table of Contents.....	ix
Introduction	1
Equipment Overview	3
EndoVR Device	3
Monitor Pole and Monitor Arms.....	3
Monitors	3
Computer.....	4
Additional Equipment	5
Before Beginning Setup	5
Setup.....	7
Step 1: Place the Simulator in the Work Area	8
Step 2: Mount the Monitor Pole	9
Step 3: Mount the Monitors	10
Step 4: Connect and Secure the Monitor Cables.....	11
Step 5: Mount the Scope Holder.....	12
Step 6: Connect the Scope.....	13
Changing a Scope.....	13
Step 7: Connect the External Power Cord	14
Step 8: Power On the Simulator	15
Step 9 (Optional): Connect the Ethernet Cable	16
Step 10 (Optional): Adjust the Height.....	17
Step 11 (Optional): Prepare Pedals for Use.....	18
Step 12 (Optional): Connect the Accessory Tool.....	19
Using the Administrator Tools	21

Starting the Software	21
Interface Overview	23
Creating Users and Groups	25
Creating Users	25
Editing User Information	30
Deactivating Users	32
Activating Users	33
Creating Groups	35
Modifying Groups	37
Creating a Course	39
Editing a Course	41
Creating Tasks	46
Renaming a Task	49
Assigning a User to a Task	50
Assigning a Group to a Task	51
Assigning a Course to a Task	52
Deleting a Task	53
Adjusting Task Parameters	54
Adding Faculty Content	56
Adjusting the Network Settings	58
Emailing Users and Groups	59
Emailing Users	60
Emailing Groups	62
Backing Up the Database	64
Restoring the Database	67
Calibrating the Scopes	69
Running the Flexible Bronchoscopy Calibration	71
Running the Lower GI Calibration	76
Running the Upper GI Calibration	81
Modifying Language Preferences	88
Adjusting the Volume Controls	90
Modifying the Scope Button Assignments	92

Modifying the Screen Layout	95
Modifying the Medication Settings.....	97
Printing Data	100
Printing Data to a PDF File	104
Printing Data to a Network Printer	107
Importing Users	108
Exporting Users and Groups.....	111
Exporting Results.....	115
Hiding the Side Panel	119
Exiting the Software	120
CAE Assurance Programs	121
General Information	121
Units Out of Plan	121
Plan Period.....	121
Limitations of Plan	121
Return Materials Authorization (RMA).....	122
Training for LifeTM.....	122
System Software Upgrade Support.....	122
Time and Materials.....	122
How to Contact Customer Service.....	123
Breakdown.....	124
Appendix A - Module Descriptions	127
Module Instruments and Required Equipment.....	128
Bronchoscopy.....	128
Lower GI	129
Upper GI	130

INTRODUCTION

Welcome to the CAE EndoVR Simulator administrator's guide. This guide provides instructions on how to use and maintain your EndoVR simulator.

The EndoVR simulator provides a safe, virtual environment for learners to practice endoscopic techniques and skills. Learners can range from medical students to licensed medical professionals.



The EndoVR Simulator

Preprogrammed tasks and courses with didactic content, real-time simulation haptics and post-simulation evaluation metrics help create the comprehensive training experience for learners. Through the combination of these tools, learners begin to recognize anatomical structures and landmarks, intervention approaches and complication management. Learning within a virtual patient environment offers both students and faculty the opportunity to practice safely.

EQUIPMENT OVERVIEW

The standard equipment for the EndoVR simulator includes all the necessary equipment for basic use of the simulator. The items listed in the table below are shipped with the simulator.

Standard Equipment
EndoVR Device
Monitor Pole and Monitor Arms
Monitors
Computer

EndoVR Device

The EndoVR device comes as a single entity. The haptic device (including external anatomy plates), keyboard, mouse and lifting mechanism are all part of the EndoVR device. The device is secured to a four-wheel platform for convenient mobility when storing the simulator.

Additional parts, which are packaged and shipped separately, will require minor assembly.



The EndoVR Device

Monitor Pole and Monitor Arms

The monitor pole is shipped separately from the EndoVR device and requires some assembly before the simulator can be used. Two plates (one front and one back) connect to the EndoVR device to create the monitor pole. The monitor arms are attached to the monitor pole front plate.

Monitors

Two flatscreen monitors are provided with the purchase of an EndoVR simulator. The mounting plates to mount the monitors to the monitor arms are located on the back of the monitors.

Computer

The computer for the EndoVR simulator is shipped inside the EndoVR device. To access the computer, press on the access door located on the side of the simulator.



The Computer Access Door

Additional Equipment

For modules, which are sold separately, users must purchase additional equipment to fully utilize the curriculum and simulation procedures.

Bronchoscopy Equipment
Scope Head
Scope Tube
EBUS-TBNA Accessory Tool

Lower GI Equipment
Scope Head
Scope Tube
Accessory Tool
Foot Pedals

Upper GI Equipment
Scope Head
Scope Tube
Accessory Tool

Before Beginning Setup

Proper operation of the EndoVR simulation requires correct configuration. Before setting up the system, keep in mind these basic guidelines:

- Read and understand the Cautions and Warnings in the beginning of this Administrator's Guide
- Follow and complete the sequence of Setup steps carefully
- Do not power on any components until instructed in the text
- Do not install any Windows updates or anti-virus software when connecting to the network
- When unpacking the simulator for the first time, use box cutters carefully to protect both the packaging and the product

Note: Keep all original shipping materials, including boxes. Warranty and repair items must be returned and shipped in their original packaging.

SETUP

This section provides instructions and guidelines for assembling the EndoVR simulator and configuring the computer. Follow these procedures to prepare for your simulation experience.

Setting Up the EndoVR Simulator	
1	Place the simulator in the work area
2	Mount the monitor pole
3	Mount the monitors
4	Connect and secure the monitor cables
5	Mount the scope holder
6	Connect the scope
7	Connect the external power cord
8	Power on the simulator
9	Optional: Connect the Ethernet cable
10	Optional: Adjust the height
11	Optional: Prepare pedals for use
12	Optional: Connect the accessory tool

Step 1: Place the Simulator in the Work Area

To place the simulator in the work area:

- a. Remove the simulator device and standard equipment from its packaging
Note: Keep all shipping materials intact in case any equipment must be returned.
- b. Place the simulator and hardware components in the desired work area.
The work area should provide enough space for the simulator, the learner and one or two observers.



The EndoVR Simulator

- c. Lock the wheels on the bottom of the simulator by pressing down on the wheel brake.



The Wheel Brake

Step 2: Mount the Monitor Pole

To mount the monitor pole front plate on the pole base:

- a. Twist the wingnuts located on the back of the EndoVR device to reveal part of the screw. Repeat for each of the six screws.
- b. Located the monitor pole front plate
- c. Hold the front plate vertically with the front of the plate facing the front of the simulator
- d. Slide the grooves at the bottom of the front plate onto the screws in the EndoVR device
- e. Twist the wingnuts onto each screw until tight to secure the front plate

To route the monitor cables:

- a. Gently pull the loose monitor cables from the pole base until the cables are fully extended
- b. Thread the cables through the opening near the top of the monitor pole front plate

To mount the monitor pole back plate onto the pole base:

- a. Locate the monitor pole back plate and align the holes near the top of the back plate with the holes near the top of the front plate
- b. Place the screw into the top left hole and twist until secure
- c. Place the screw in the bottom right hold and twist until secure. Use a Phillips head screwdriver to tighten the screws in place
- d. Place the screw in the top right hole and a screw in the bottom right hole. Use a Phillips head screwdriver to tighten the screws in place.

Step 3: Mount the Monitors

WARNING: The flatscreen monitor must be held firmly in place while the steps below are completed. To ensure this process is completed safely and properly, CAE strongly recommends that two individuals work cooperatively to complete this task.

To mount the monitor onto the monitor arm:

- a. Remove the screws from the back of the monitor
- b. Align the holes on the mounting plate at the end of the monitor arm with the holes on the back on the monitor
 - Note:** One person must hold the monitor at all times.
- c. Twist the screws by hand into each hole
- d. Ensure the monitor is secure before letting go of the monitor
- e. Repeat steps a through d for the second monitor



The Monitor Mounting Plate and Screws

Step 4: Connect and Secure the Monitor Cables

To connect the monitor cables:

- a. Locate the monitor VGA cable at the top of the monitor pole
- b. Run the cable along the monitor arm to the back of the monitor
- c. Plug the cable into the VGA port on the bottom of the monitor and twist the pins on each side of the connector to secure the cable in the port
- d. Locate the monitor power cable at the top of the monitor pole
- e. Run the cable along the monitor arm to the back of the monitor
- f. Plug the cable into the power port

To secure the monitor cables:

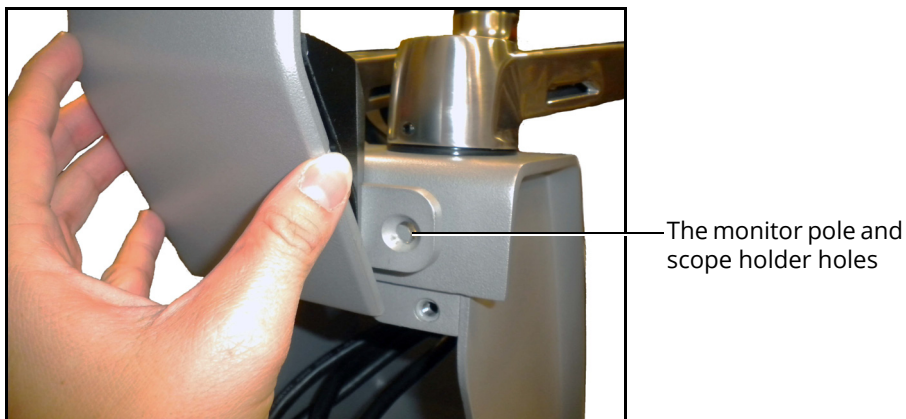
- a. Grasp both cables and press the cables against the monitor arm
Note: Leave approximately 3 to 4 inches of cable length from the monitor arm base to the plastic monitor arm cover before completing step b.
- b. Press the bottom of the grouped cables onto the plastic cover
- c. Align the bottom of the cover below the arm and the end of the cover below the monitor arm hinge
- d. Squeeze the end of the cover and push the monitor cover in towards the base until it clicks
- e. Wrap a zip tie around the exposed and create a loose circle
- f. Attached the zip tie circle onto the hook located under the monitor arm near the monitor arm hinge
- g. Pull the zip tie tightly around the hook
- h. Repeat steps f and g on the hook located near the monitor

Note: Repeat these processes for the second monitor.

Step 5: Mount the Scope Holder

To mount the scope holder:

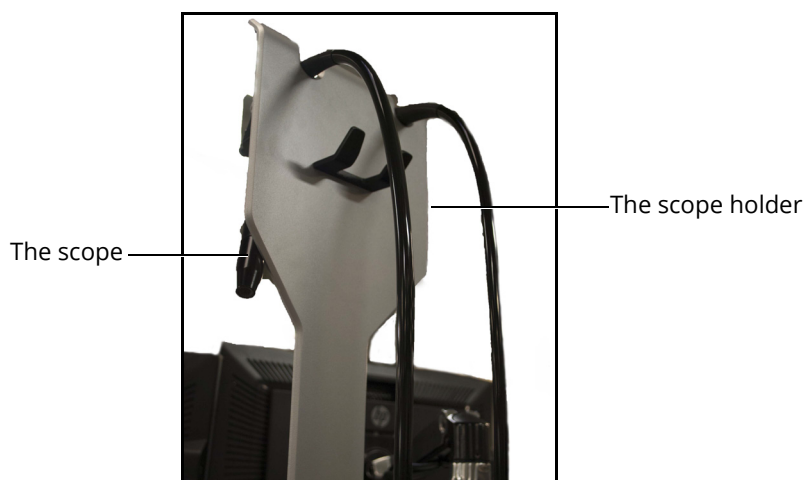
- a. Insert the metal tab near the bottom of the scope holder into the opening on the back of the monitor pole
- b. Align the holes near the bottom of the scope holder with the holes on the back of the monitor pole



The Alignment of the Scope Holder and Monitor Pole

Note: The black hook at the top of the scope holder should be facing away from the simulator and the holes at the bottom of the holder should rest flat against the monitor pole.

- c. Place a screw in the hole and use the Phillips screwdriver to tighten the screw until it is secure. Repeat for the second hole
- d. Once the screws are secure, place the scopes in the holder



The Scope Holder

Step 6: Connect the Scope

Changing a Scope

When the chosen task requires a different scope from the scope that is currently connected, learners can disconnect the current scope and connect the new scope.

Note: Do not disconnect scope during a running simulation.

To disconnect a scope:

- a. Twist the two fasteners on the scope connector counterclockwise

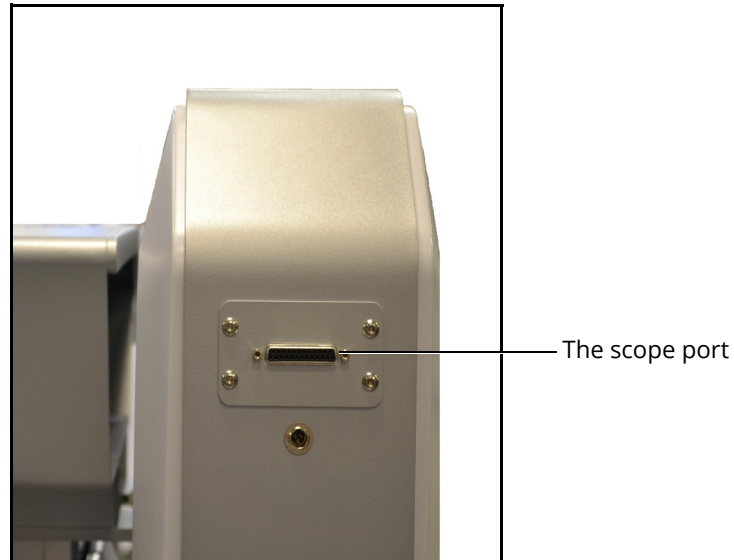


The Scope Connector and the Scope Port

- b. Pull the connector away from the scope port

To connect a scope:

- a. Choose the desired scope from the scope holder located on the back of the simulator
- b. Align the prongs in the connector with the scope port located on the back left side of the simulator



The Back of the Simulator

- c. Press the connector into the scope port and twist the two fasteners clockwise



The Scope Connector and the Scope Port

Note: Only one scope can be connected to the simulator at a time.

Step 7: Connect the External Power Cord

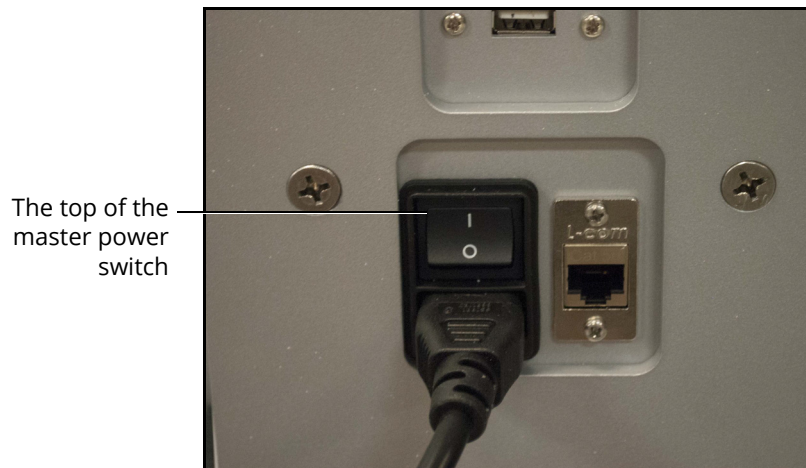
Find an external power source and plug the power cord into the power source.

Step 8: Power On the Simulator

Before starting the software, ensure that the simulator is powered on. In the case that the simulator is not powered on, follow the instructions below.

To power on the simulator:

- a. Ensure the top of the master power button, located on the back of the simulator, is pressed in



The Master Power Switch

- b. Press the top part of the orange power switch located on the back right side of the simulator



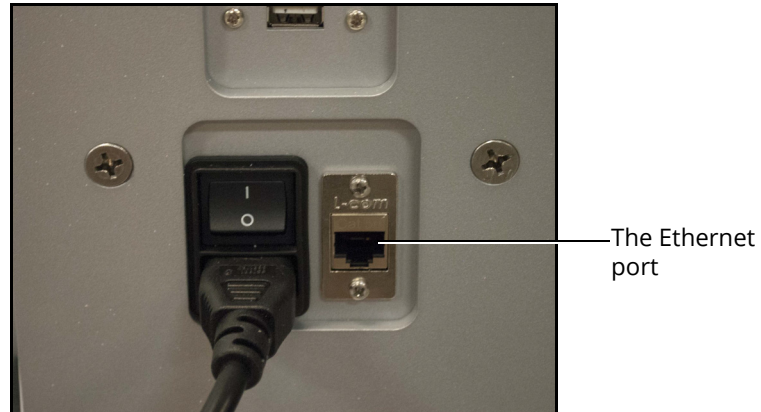
The Power Switch Illuminated

The switch illuminates when the simulator is powered on.

Step 9 (Optional): Connect the Ethernet Cable

To access the network for sending emails or printing:

- a. Connect an Ethernet cable to the Ethernet port located on the back of the simulator



The Ethernet Port

- b. Connect the other end of the Ethernet cable to a network Ethernet port

Step 10 (Optional): Adjust the Height

It is important to ensure the simulator is at the appropriate height for the learner to effectively perform the procedures. The EndoVR simulator has arrows that allow the learner to adjust the height as needed.

To adjust the height of the simulator:

- a. Press the up or down illuminated green arrow buttons located on the front of the lifting mechanism
- b. Hold the up or down arrow button for a few seconds to activate the lift mechanism. The device begins moving up or down.



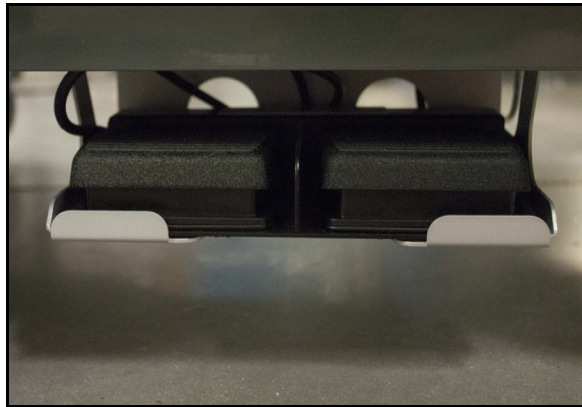
The Lifting Mechanism

- c. Release the button when the desired height is achieved

Step 11 (Optional): Prepare Pedals for Use

To prepare the pedals for use:

- a. Remove the pedals from the storage tray located underneath the left side of the simulator to use the pedals during procedures



The Pedal Storage Tray

- b. Place the pedals directly in front of simulator for procedures that require the pedals to complete specific actions during the simulation



The Simulation Pedals

Note: Return the pedals to the storage tray when they are not in use to eliminate potential misuse or safety hazard.

Step 12 (Optional): Connect the Accessory Tool

To connect the accessory tool for specific procedures:

1. Select the desired accessory tool for the procedure
The EBUS-TBNA accessory tool is used for EBUS-TBNA module tasks.



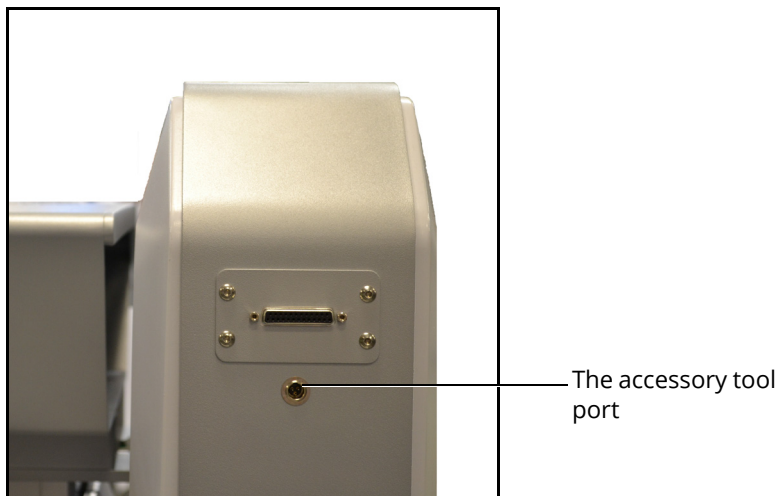
The EBUS-TBNA Accessory Tool

The Upper GI/Lower GI accessory tool is used for certain Upper GI and Lower GI module tasks.



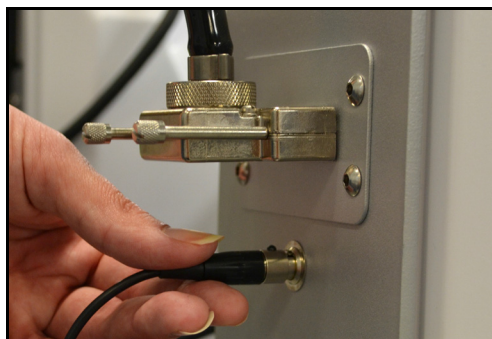
The Upper GI/Lower GI Accessory Tool

2. Locate the accessory tool port on the back of the simulator



The Back of the Simulator

3. Press the accessory tool connector into the accessory tool port



The Accessory Port

USING THE ADMINISTRATOR TOOLS

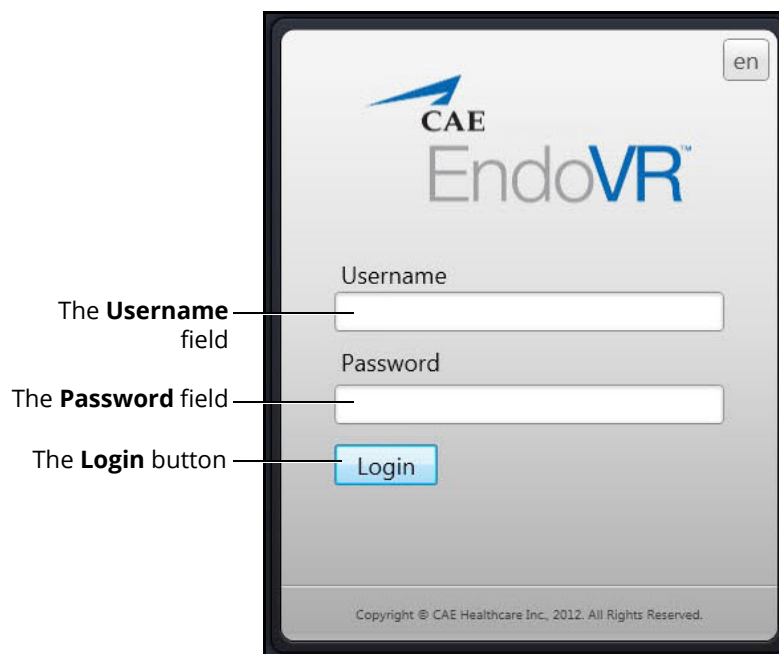
Administrators managing the EndoVR simulator are responsible for setting up user accounts, privileges and curriculum. Additionally, the administrator has the ability to change network settings, scope button assignments and simulation parameters, set up emails, generate and print reports and import and export system data.

Note: For optimal use, no other software programs should be open while the simulator software is running.

Note: To use the printing functions in the software, a network connection must be established.

Starting the Software

Once the EndoVR simulator is powered on, the software launches automatically and the Login screen appears.

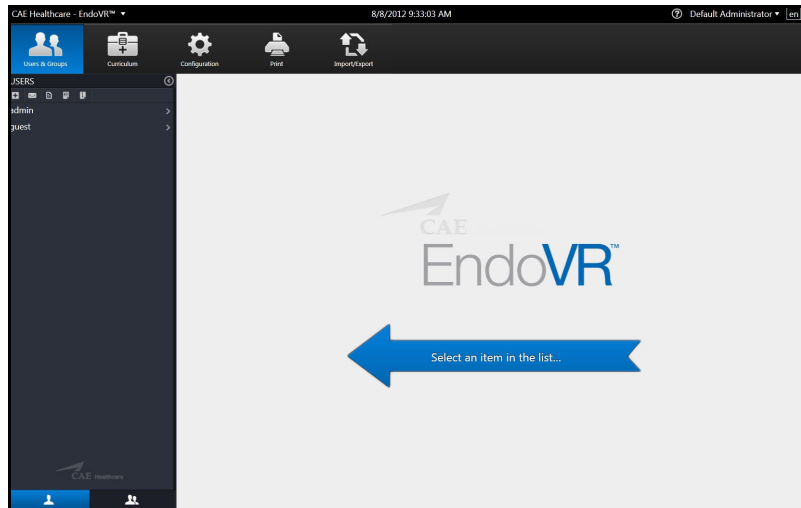


The Login Screen

To log in to the software:

1. Enter the assigned username in the **Username** field. The default username for a new administrator is *admin*
2. Enter the assigned password in the **Password** field. The default password for a new administrator is *admin*
3. Click **Login**

The administrator Home screen appears, indicating the administrator is logged in.

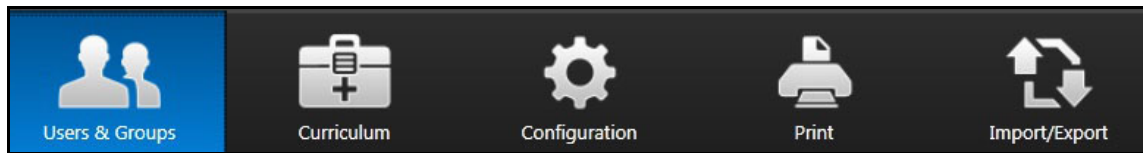


The Administrator Home Screen

From the administrator Home screen, administrators can navigate to the screens required for editing user and group accounts, assigning curriculum, adjusting configurations and printing, importing and exporting user data.

Interface Overview

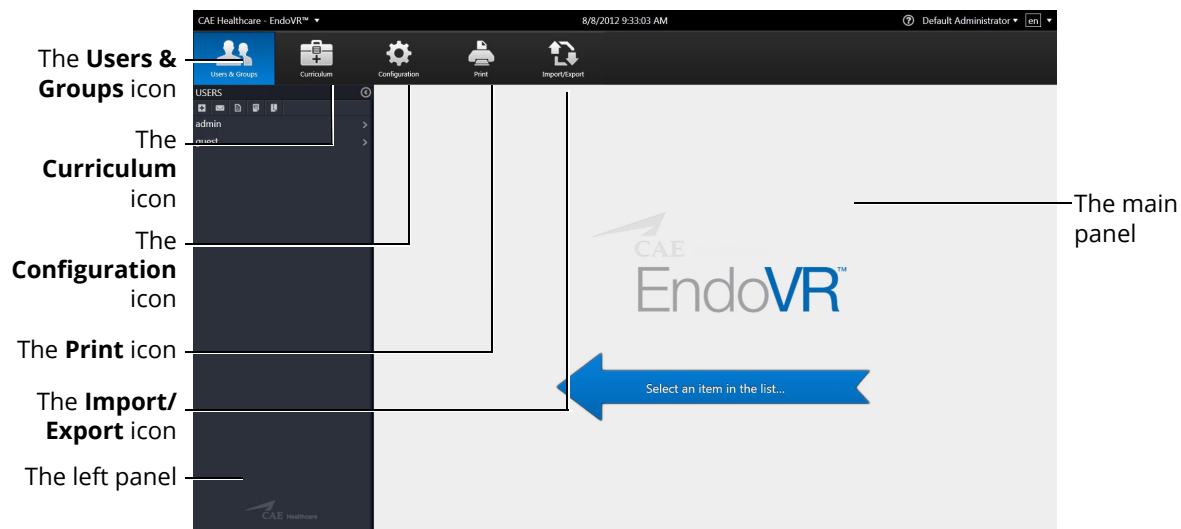
The EndoVR administrator interface contains a dashboard of icons located near the top of the screen that represents the screens available for administrators to perform various tasks and functions.



The Icon Dashboard

When an icon is selected, the associated content will appear in the main panel of the interface and the left panel contains a list of options for administrators.

The **Users & Groups** icon is selected by default and referred to as the Home screen when users first login to the software.



The Administrator Home Screen

Users & Groups

From the Users & Groups screen, administrators can create user accounts, assign privileges, courses and tasks to individual users and assign users, courses and tasks to groups. Administrators can also deactivate user accounts and set up and send out automated emails containing user account information.

Curriculum

From the Curriculum screen, administrators can assign courses and tasks to individual users and assign courses, tasks and users to groups.

Configuration

From the Configuration screen, administrators can adjust network settings, screen layout and available medication options for users in the EBUS-TBNA and UGI modules. Administrators can also calibrate scopes, modify scope button assignments and language preferences.

Print

From the Print screen, administrators can print user account information, usage summaries and reports for individual users and groups.

Import/Export

From the Import/Export screen, administrators can import users and export user lists and results.

Creating Users and Groups

Administrators are responsible for creating and managing users and groups in the EndoVR system. Only users with administrative privileges can create new users and groups.

Creating Users

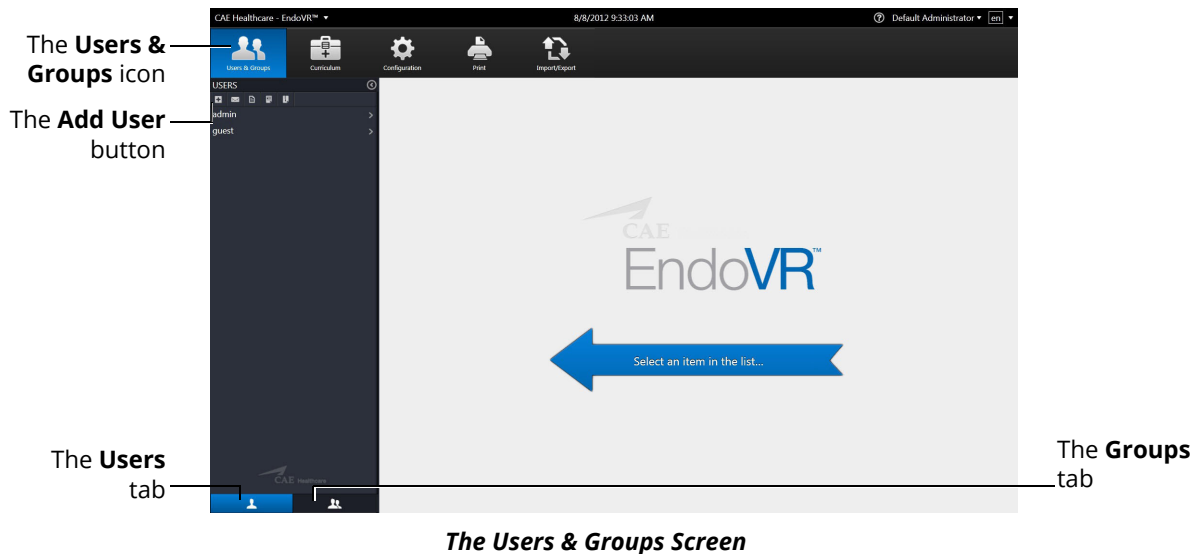
To create a user:

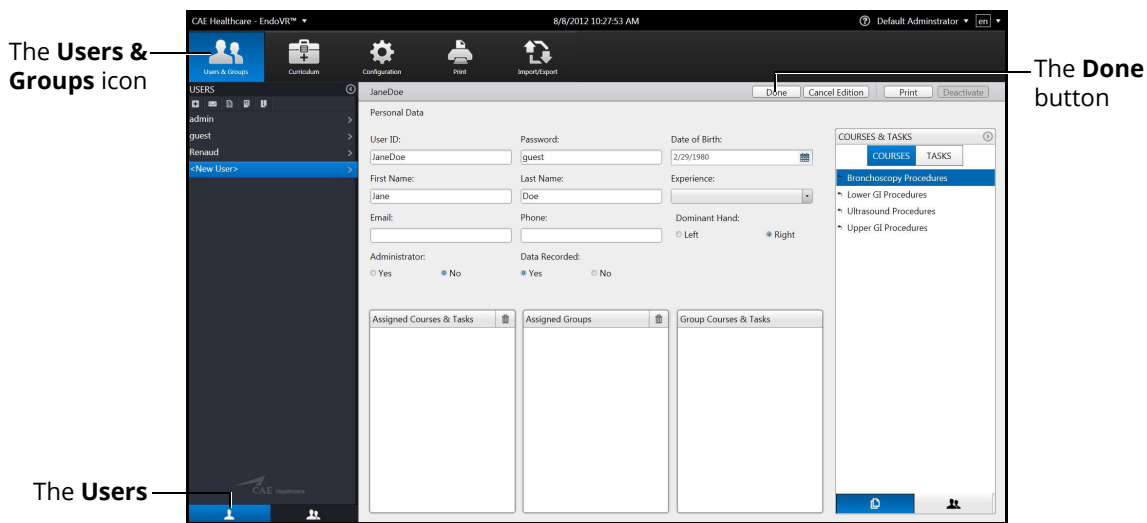
1. From the icon dashboard, click the **Users & Groups** icon



The Users & Groups Icon

2. From the Users and Groups screen on the **Users** tab, click the **Add User** button





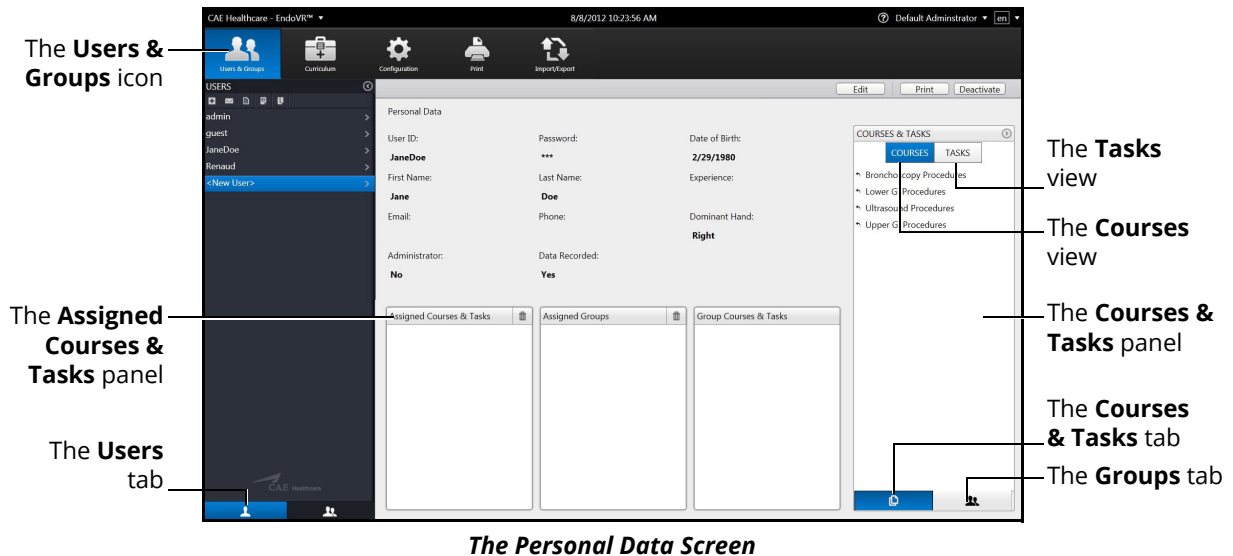
The Personal Data Screen

3. Enter the information for the specific user in the different fields
4. Click **Done**

Assigning Courses to a User Account

To assign a course to a user from the Personal Data screen:

1. Select the user from the **Users** panel on the Users and Groups screen



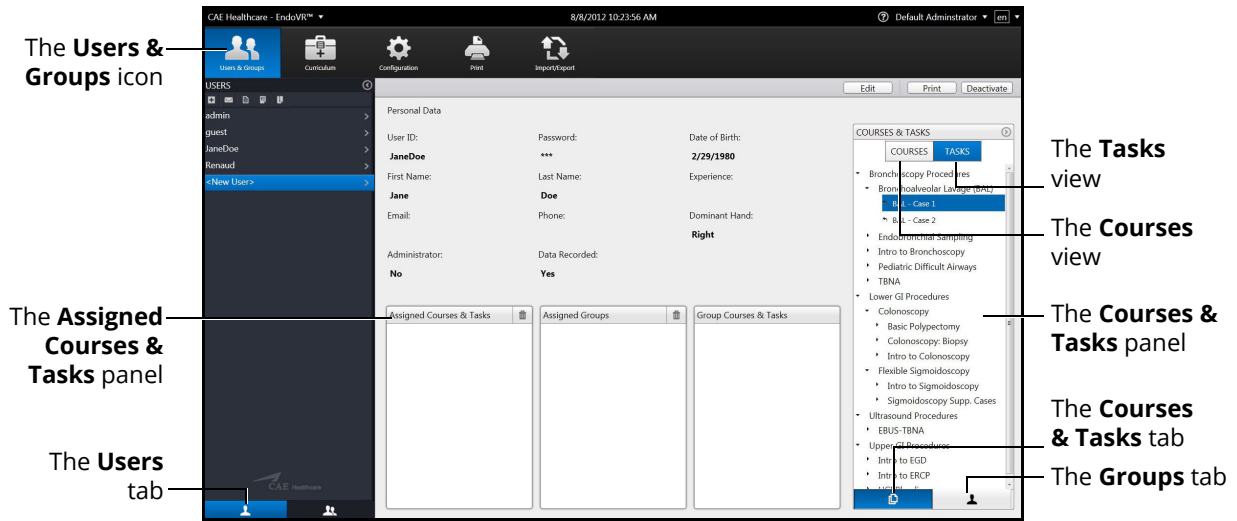
2. Click on the **Courses & Tasks** tab in the **Courses & Tasks** panel
3. Click on the **Courses** view and select the desired course in the **Courses & Tasks** panel
4. Hold down the left mouse button and drag the course from the **Courses & Tasks** panel to the **Assigned Courses & Tasks** panel

Once the button is released, the course appears in the assigned curriculum for the user.

Assigning Tasks to a User Account

To assign a task to a user from the Personal Data screen:

1. Select the user from the **Users** panel on the Users and Groups screen
2. The Personal Data screen appears



The Personal Data Screen

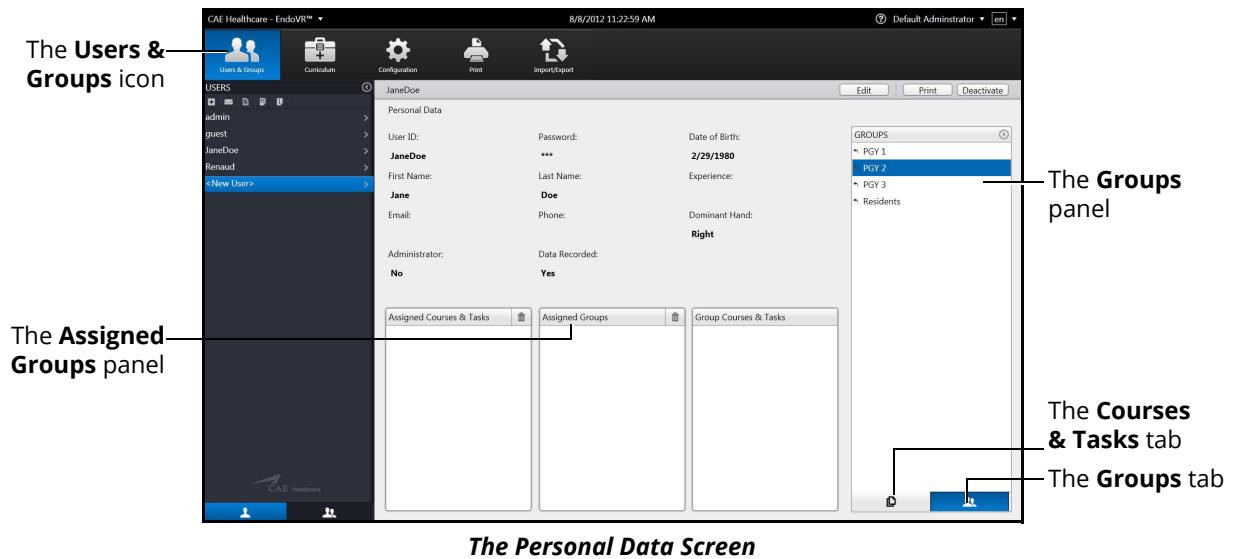
3. Click on the **Courses & Tasks** tab in the **Courses & Tasks** panel
4. Click on the **Tasks** view and select the desired course in the **Courses & Tasks** panel
5. Hold down the left mouse button and drag the course from the **Courses & Tasks** panel to the **Assigned Courses & Tasks** panel

Once the button is released, the task appears in the assigned curriculum for the user.

Assigning a User to a Group

To assign a user to a group from the Personal Data screen:

1. Select the user from the **Users** panel on the Users and Groups screen. The Personal Data screen appears



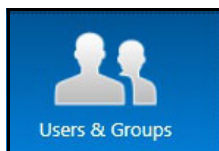
2. Click on the **Groups** tab in the **Groups** panel
3. Select the desired group in the **Groups** panel
4. Hold down the left mouse button and drag the group from the **Groups** panel to the **Assigned Groups** panel

Once the button is released, the group appears in the assigned groups for the user.

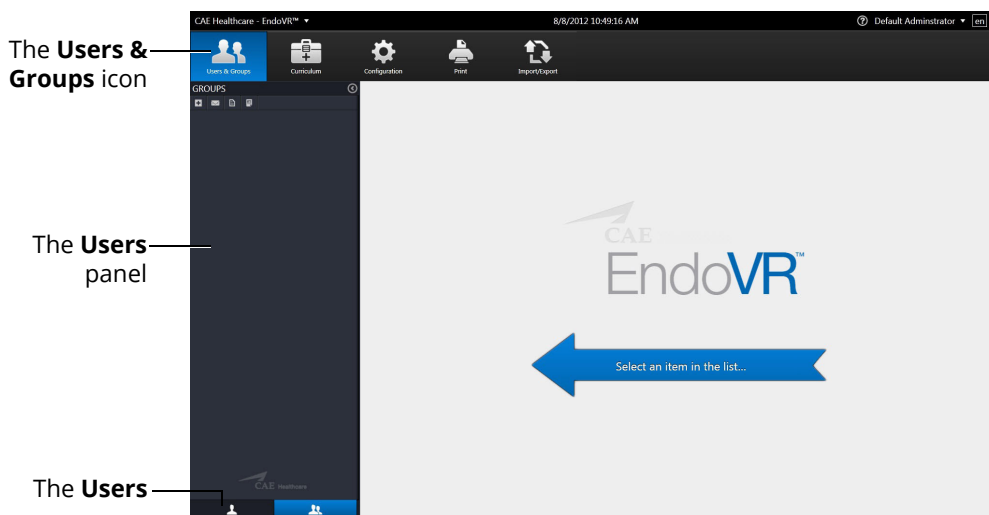
Editing User Information

To edit a current user's information:

1. From the icon dashboard, click the **Users & Groups** icon

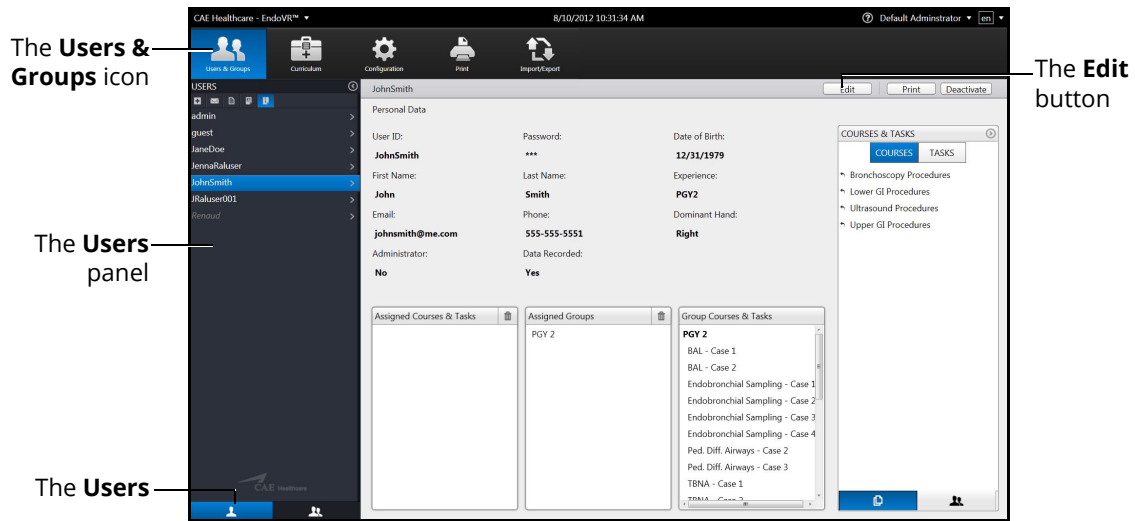


The Users & Groups Icon



The Users & Groups Screen

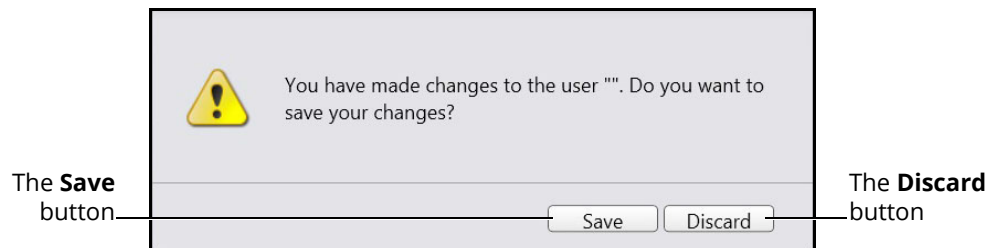
2. From the Users and Groups screen, click the **Users** tab
3. Select the desired user from the **Users** panel



The Personal Data Screen

4. Click **Edit**
5. Change the desired information for the specific user in the different fields
6. Click **Done**

Note: If the user navigates away from the Personal Data screen before clicking **Done** to save the information, the **Unsaved Personal Data** message will appear.



The Unsaved Personal Data Message

To save the changes, click **Save**.

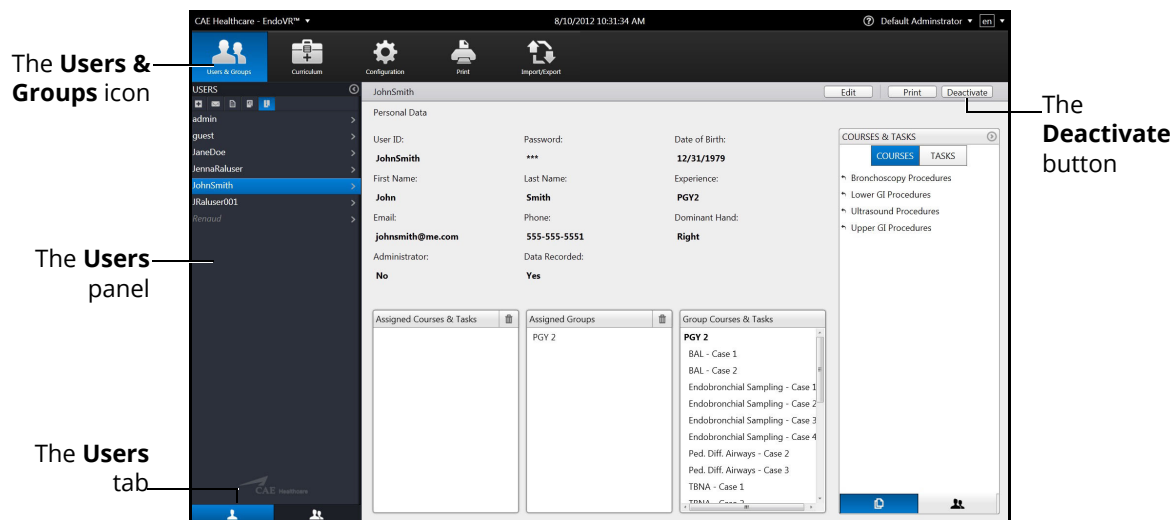
To discard the changes, click **Discard**.

Deactivating Users

If a learner is no longer attending training or their account is no longer active, the administrator can deactivate the user.

To deactivate a user:

1. From the Users and Groups screen, click the **Users** tab
2. Select the desired user



The Inactive Users Personal Data Screen

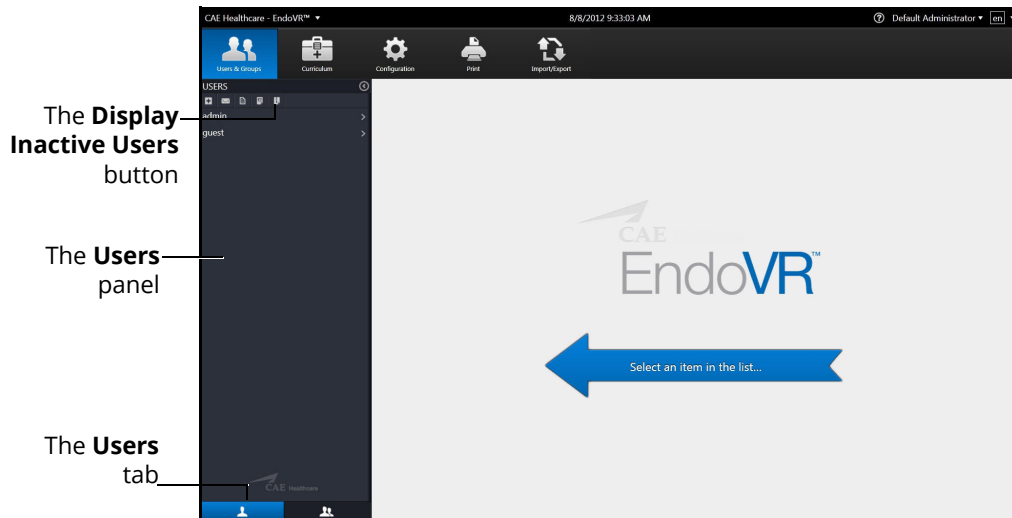
3. Click **Deactivate**

Activating Users

Upon creating and saving a user, the administrator activates the user. If a user has been deactivated by an administrator, the user can also be reactivated by the administrator.

To activate a currently inactive user:

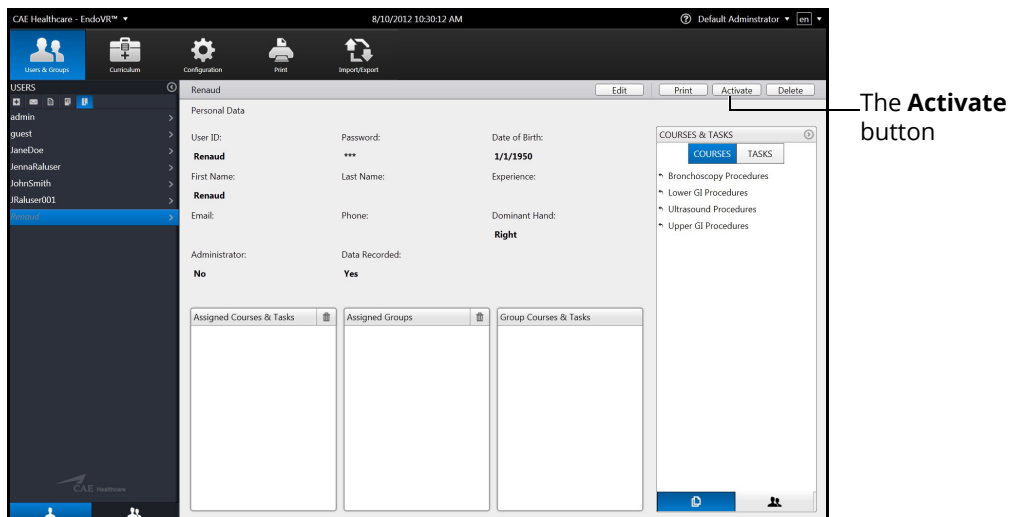
1. From the Users and Groups screen, click the **Users** tab
2. Click the **Display Inactive Users** button



The Users and Groups Screen

The deactivated user names appear in the **Users** panel in gray, italic font.

Select the desired deactivated user. The user's information appears in the personal data screen.



The Inactive Users Personal Data Screen

3. Click **Activate**

Creating Groups

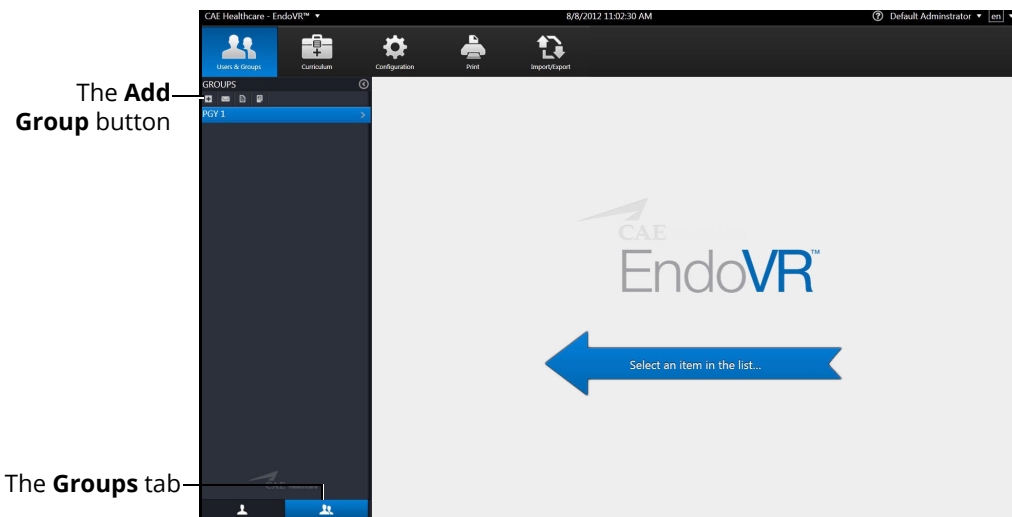
To create a group:

1. From the icon dashboard, click the **Users & Groups** icon



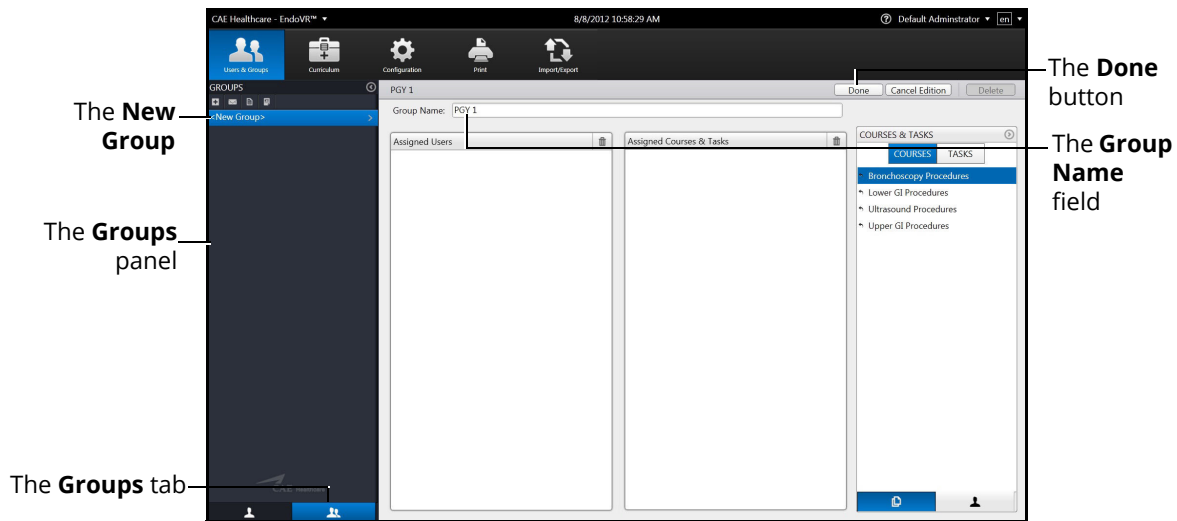
The Users & Groups Icon

2. From the Users and Groups screen, click the **Groups** tab



The Users & Groups Screen - Groups Tab

3. Click the **Add Group** button



The Edit Group Screen

4. Enter the desired group name in the **Group Name** field
5. Click **Done** to save the group

Modifying Groups

Administrators can modify the group name, assigned curriculum and assigned users.

To modify a group name:

1. From the Users and Groups screen, click the **Groups** tab
2. Select a group from the **Groups** panel. The group information screen appears
3. Click **Rename**
4. Enter the new group name in the **Group Name** field
5. Click **Done**

Deleting a Group

To delete a group, click the **Delete** button on the group information screen.

Adding a Course to the Group Curriculum

To add a course to the group curriculum:

1. From the Users & Groups screen, click the **Groups** tab
2. Select a group from the **Groups** panel
3. From the Group Information screen, click the **Courses & Tasks** tab in the **Courses & Tasks** panel
4. Click on the **Courses** view and select the desired course in the **Courses & Tasks** panel.
5. Hold down the left mouse button and drag the course from the **Courses & Tasks** panel to the **Assigned Courses & Tasks** panel

Once the button is released, the course appears in the assigned curriculum for the group.

Deleting a Course from the Group Curriculum

To delete a course from the group curriculum:

1. From the Users & Groups screen, click the **Groups** tab
2. Select a group from the **Groups** panel
3. From the **Assigned Courses & Tasks** panel, select the desired course
4. Click the trash can icon button in the upper right corner of the **Assigned Courses & Tasks** panel

Adding a Task to the Group Curriculum

To add a task to the group curriculum:

1. From the Users & Groups screen, click the **Groups** tab
2. Select a group from the **Groups** panel
3. From the group information screen, click on the **Courses & Tasks** tab in the **Courses & Tasks** panel
4. Click on the **Tasks** view and select the desired task in the **Courses & Tasks** panel
5. Hold down the left mouse button and drag the task from the **Courses & Tasks** panel to the **Assigned Courses & Tasks** panel

Once the button is released, the task appears in the assigned curriculum for the group.

Deleting a Task from the Group Curriculum

To delete a task from the group curriculum:

1. From the Users & Groups screen, click the **Groups** tab
2. Select a group from the **Groups** panel
3. From the **Assigned Courses & Tasks** panel, select the desired task
4. Click the trash can icon button in the upper right corner of the **Assigned Courses & Tasks** panel

Adding a User to a Group

To add an individual user to the group:

1. From the Users & Groups screen, click the **Groups** tab
2. Select a group from the **Groups** panel
3. From the group information screen, click on the **Users** tab in the **Users** panel
4. From the **Users** panel, select the desired user
5. Hold down the left mouse button and drag the user from the **Users** panel to the **Assigned Users** panel

Once the button is released, the user appears as an assigned user to the group.

Deleting a User from the Group Curriculum

To delete a user from the group curriculum:

1. From the Users & Groups screen, click the **Groups** tab
2. Select a group from the **Groups** panel
3. From the **Assigned Users** panel, select the desired user
4. Click the trash can icon button in the upper right corner of the **Assigned Users** panel

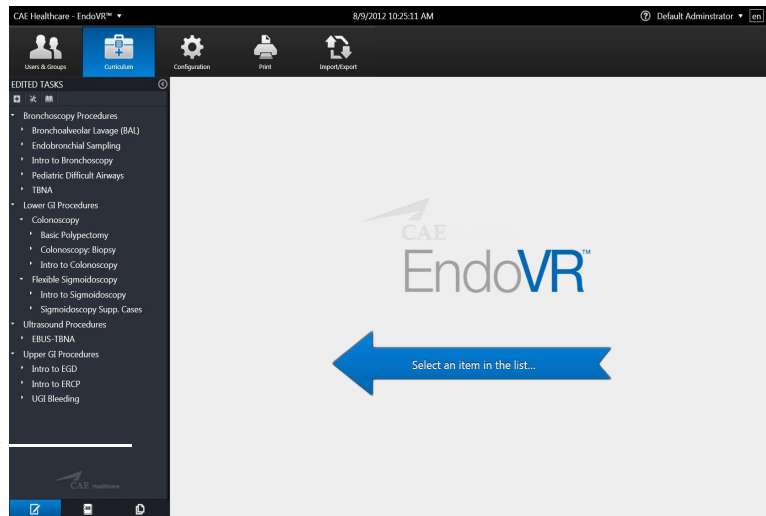
Creating a Course

To create a course:

1. From the icon dashboard, click the **Curriculum** icon



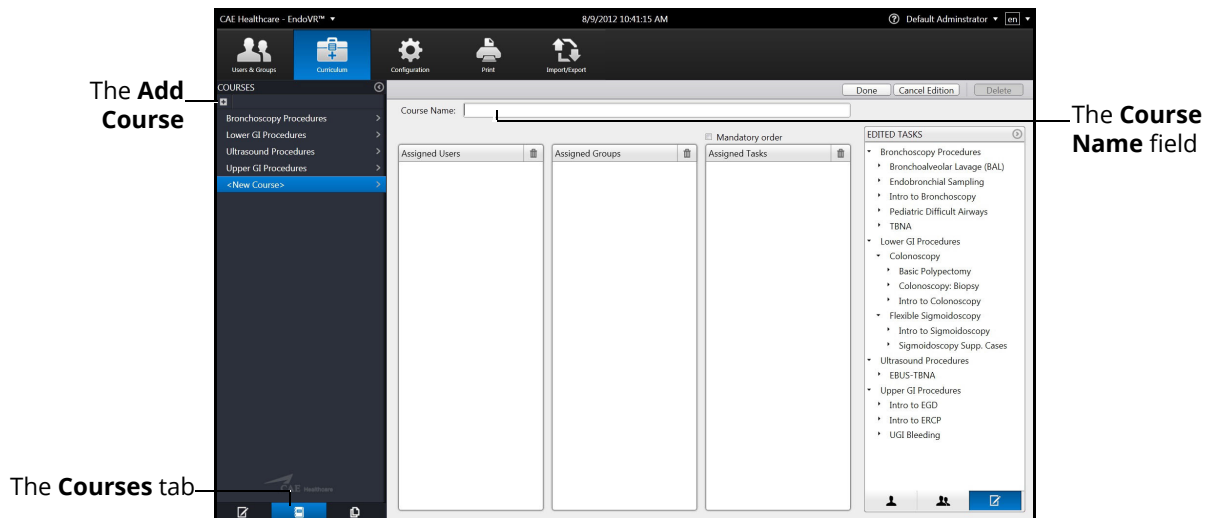
The Curriculum Icon



The **Courses** tab

The Curriculum Screen

2. From the Curriculum screen, click the **Courses** tab
3. Click the **Add Course** button



The **Add Course**

The **Course Name** field

The **Courses** tab

The Course Information Screen

The Course Information screen appears.

4. Enter the new course name in the **Course Name** field
5. Click **Done**

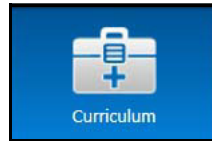
The course is created.

Editing a Course

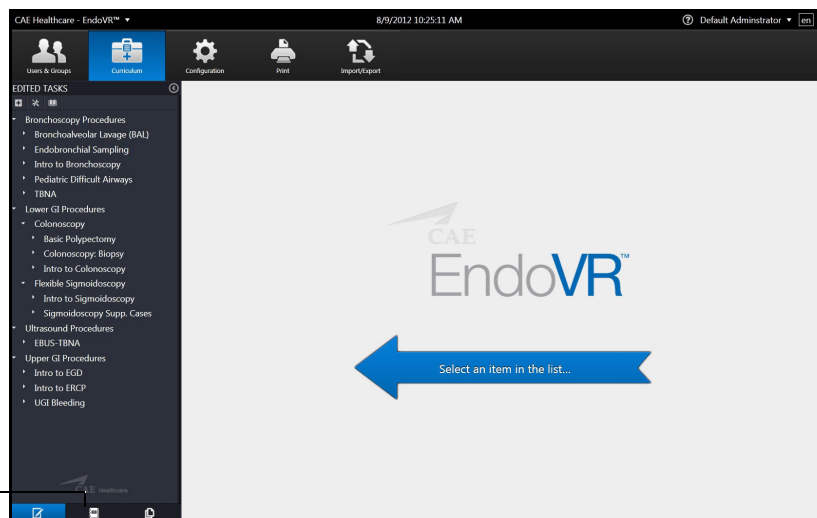
Administrators can modify the course name, assign groups, assign tasks and assign users.

To modify a course name:

1. From the icon dashboard, click the **Curriculum** icon

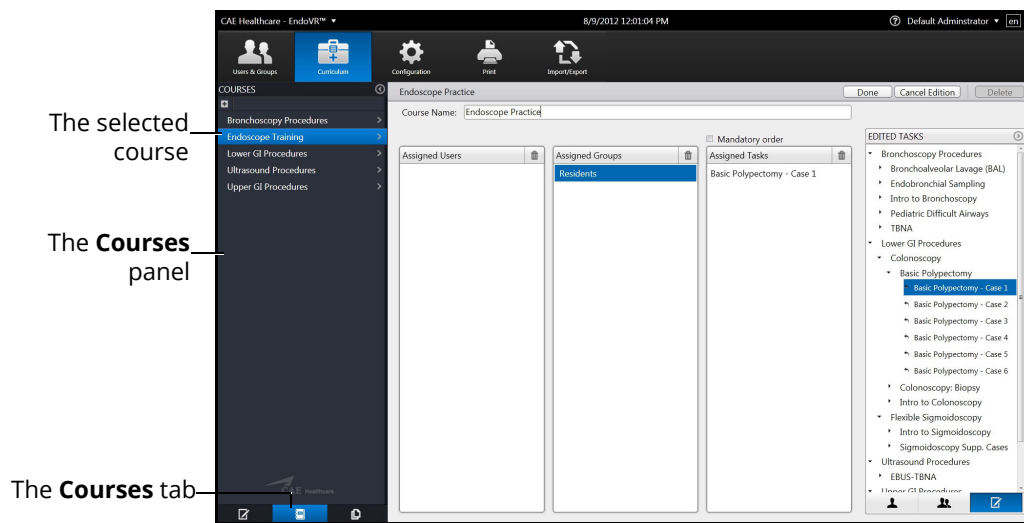


The Curriculum Icon



The Curriculum Screen

2. From the Curriculum screen, click the **Courses** tab
3. Select a course from the **Courses** panel



The Course Information Screen

4. Enter the new course name in the **Course Name** field
5. Select the **Mandatory Order** checkbox to require assigned users to complete the tasks in the order specified for the course
6. Click **Done**

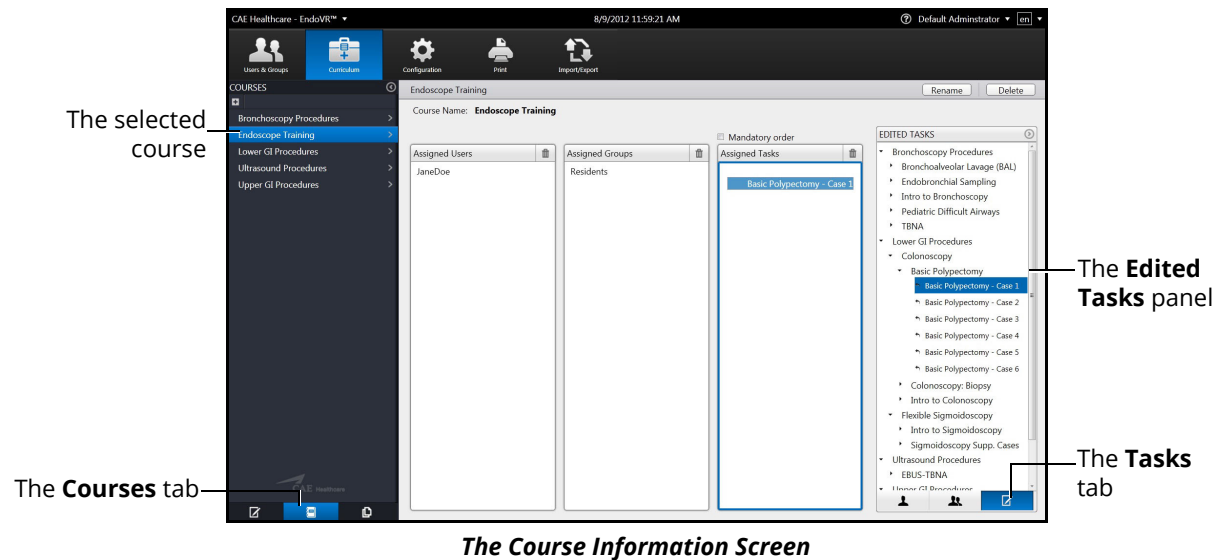
Deleting a Course

To delete a group, click the **Delete** button on the Course Information screen.

Assigning a Task to a Course

To assign a task to a course:

1. From the Curriculum screen, click the **Courses** tab
2. Select a course from the **Courses** panel
3. From the Course Information screen, click on the **Tasks** tab in the **Tasks** panel



4. Select the desired course in the **Tasks** panel
 5. Hold down the left mouse button and drag the course from the **Tasks** panel to the **Assigned Tasks** panel
- Once the button is released, the task appears in the assigned curriculum for the course.

Deleting a Task from a Course

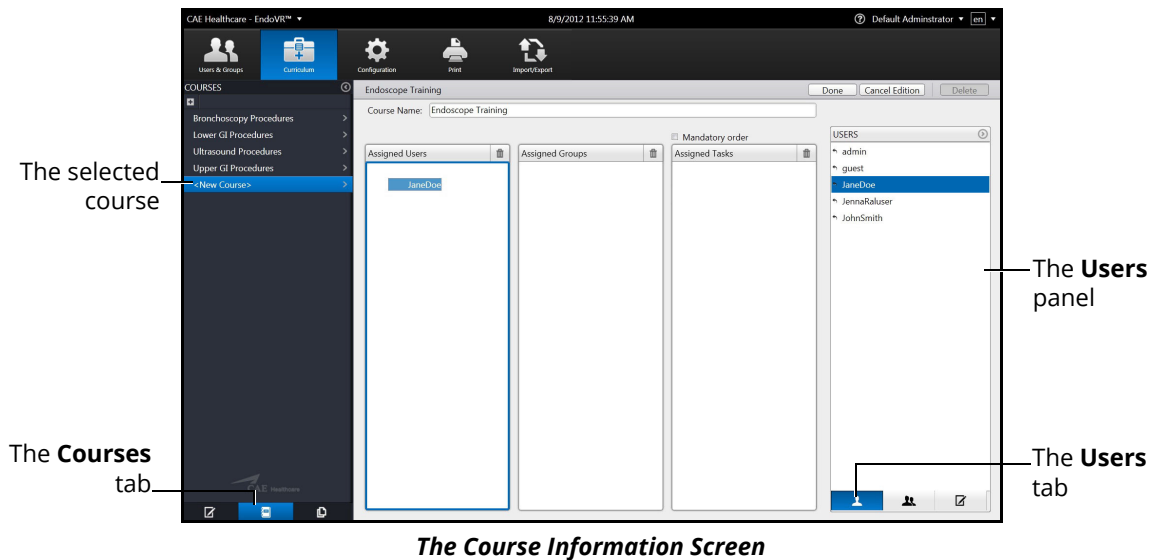
To delete a task from a course:

1. From the **Assigned Tasks** panel, select the desired task
2. Click the trash can icon button in the upper right corner of the **Assigned Tasks** panel

Assigning a Group to a Course

To assign a user to a course:

1. From the Curriculum screen, click the **Courses** tab
2. Select a course from the **Courses** panel
3. From the Course Information screen, click on the **Users** tab in the Users panel



4. Select the desired user in the **Users** panel
5. Hold down the left mouse button and drag the task from the Users panel to the **Assigned Users** panel

Once the button is released, the task appears in the assigned curriculum for the course.

Deleting a User from a Course

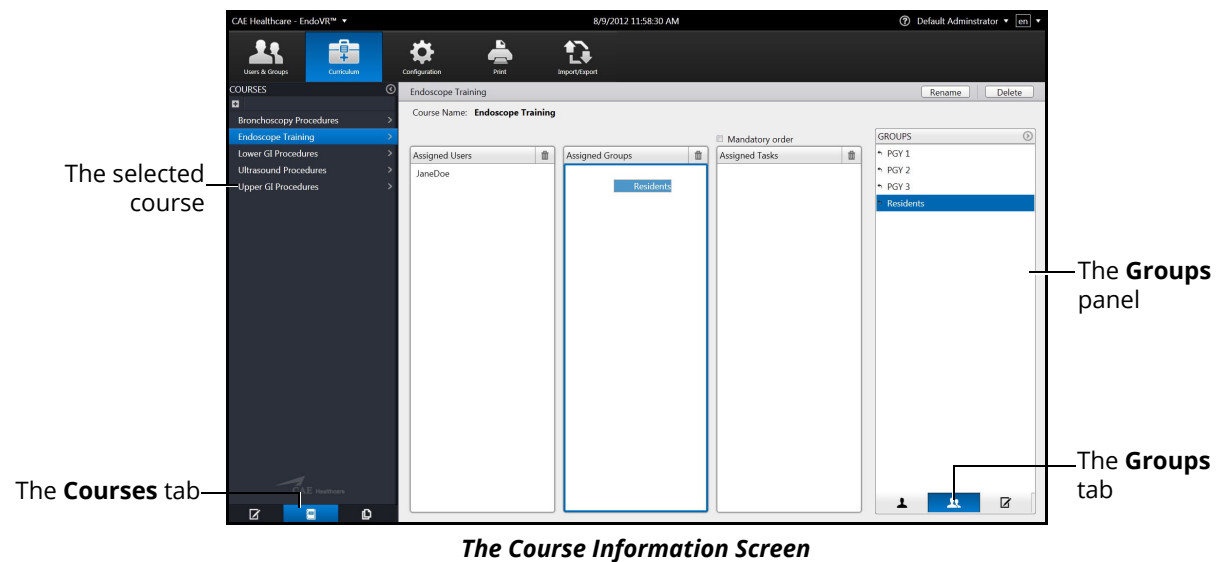
To delete a user from a course curriculum:

1. From the **Assigned Users** panel, select the desired user
2. Click the trash can icon button in the upper right corner of the **Assigned Users** panel

Assigning a Group to a Course

To assign a group to a course:

1. From the Curriculum screen, click the **Courses** tab
2. Select a course from the **Courses** panel
3. From the Course Information screen, click on the **Groups** tab in the **Groups** panel



4. From the **Groups** panel, select the desired group
5. Hold down the left mouse button and drag the group from the **Groups** panel to the **Assigned Groups** panel

Once the button is released, the group appears as an assigned group to the course.

Deleting a Group from a Course

To delete a group from the course curriculum:

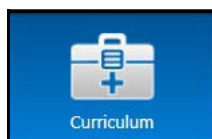
1. From the **Assigned Groups** panel, select the desired group
2. Click the trash can icon button in the upper right corner of the **Assigned Groups** panel

Creating Tasks

The simulator's module packages come with pre-programmed tasks for each type of procedure. Additionally, administrators can create custom tasks from the **Edited Tasks** tab or the **Task Templates** tab on the Curriculum screen. These tasks are known as administrator-created tasks.

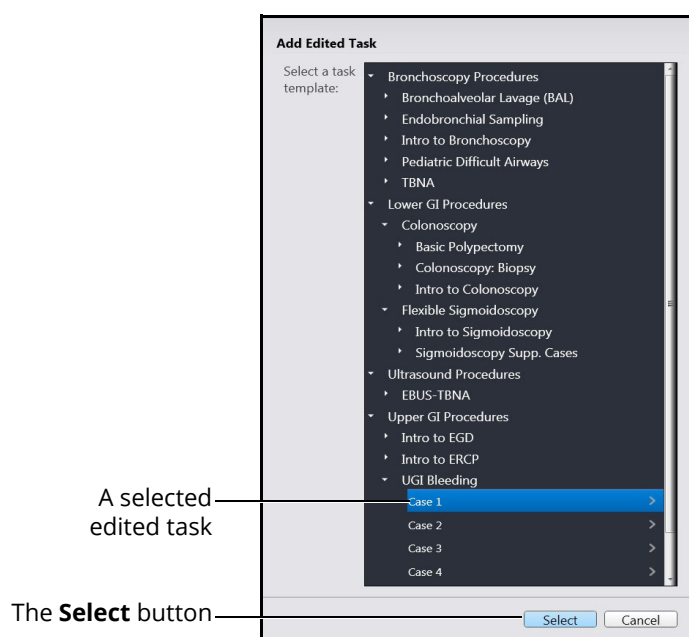
To create a task from the **Edited Tasks** tab:

1. From the icon dashboard, click the **Curriculum** icon



The Curriculum Icon

2. Click the **Tasks** tab
3. Click the **Add Task** button



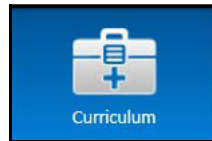
The Curriculum Screen

4. Select a task to add
5. Click **Select**

The new task appears in the **Tasks** panel and the new task information appears in the main panel on the Curriculum screen.

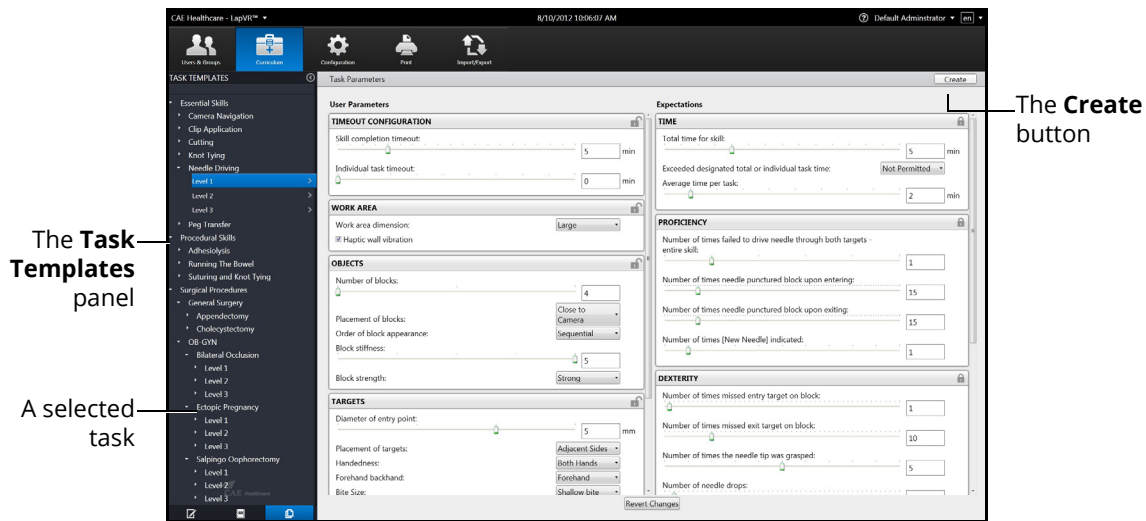
To create a task from the **Task Templates** tab:

1. From the icon dashboard, click the **Curriculum** icon



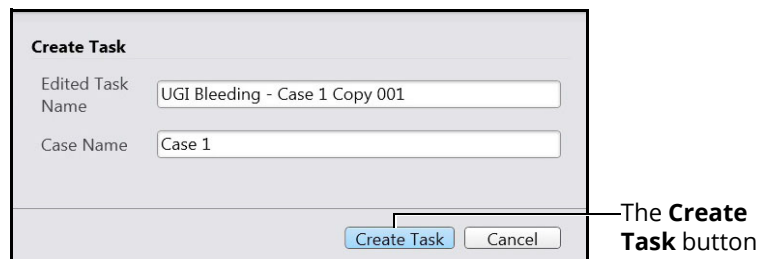
The Curriculum Icon

2. From the Curriculum screen, click the **Task Templates** tab



The Task Template Screen

3. From the Task Template screen, select a task in the **Task Templates** panel
4. Click **Create**



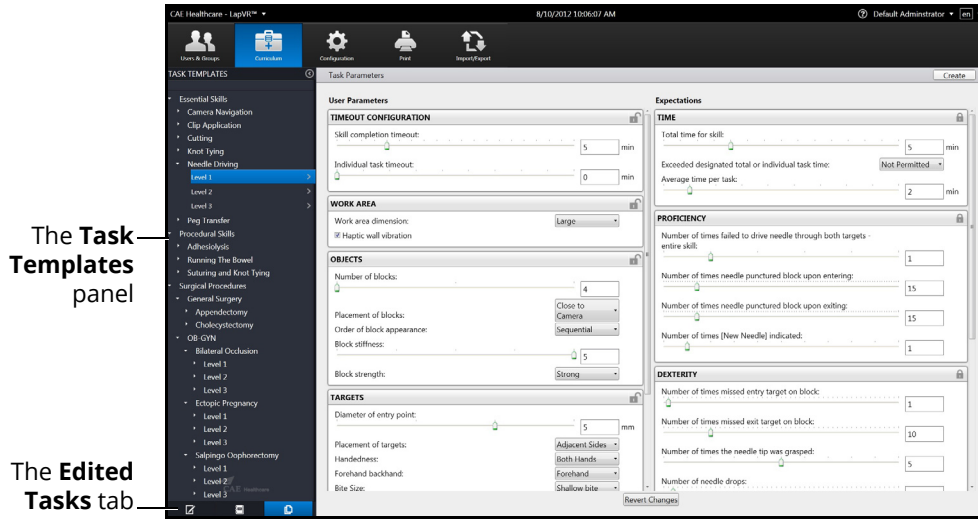
The Create Task Box

5. Enter the desired task and case name information for the new task

Note: New tasks that are not renamed upon creating a new task will appear with the original task template name and "Copy ####" in the **Task Templates** panel. The new task name can be edited at a later time in the **Tasks** tab after it is created.

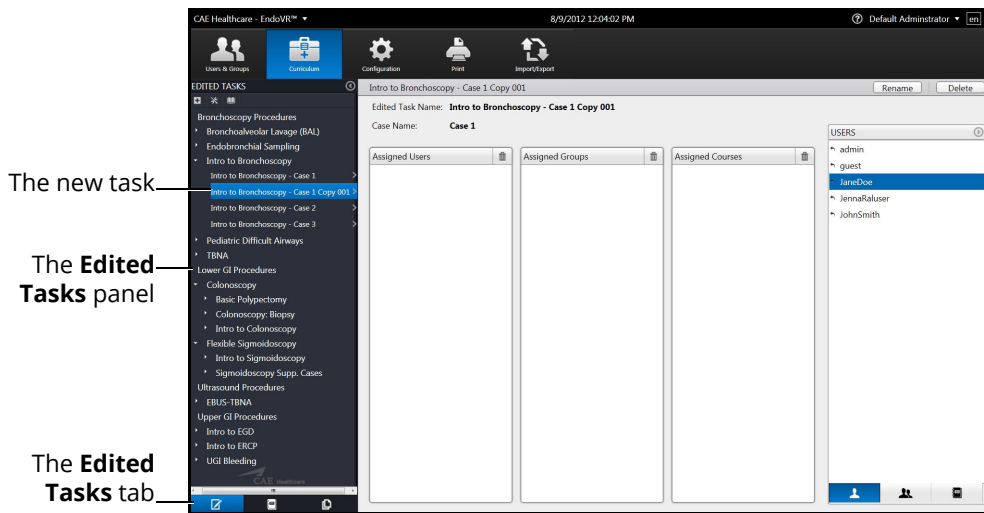
6. Click **Create Task**

Note: The new task does not appear in the **Task Templates** panel.



The Task Template Screen

7. From the Task Template screen, click the **Tasks** tab

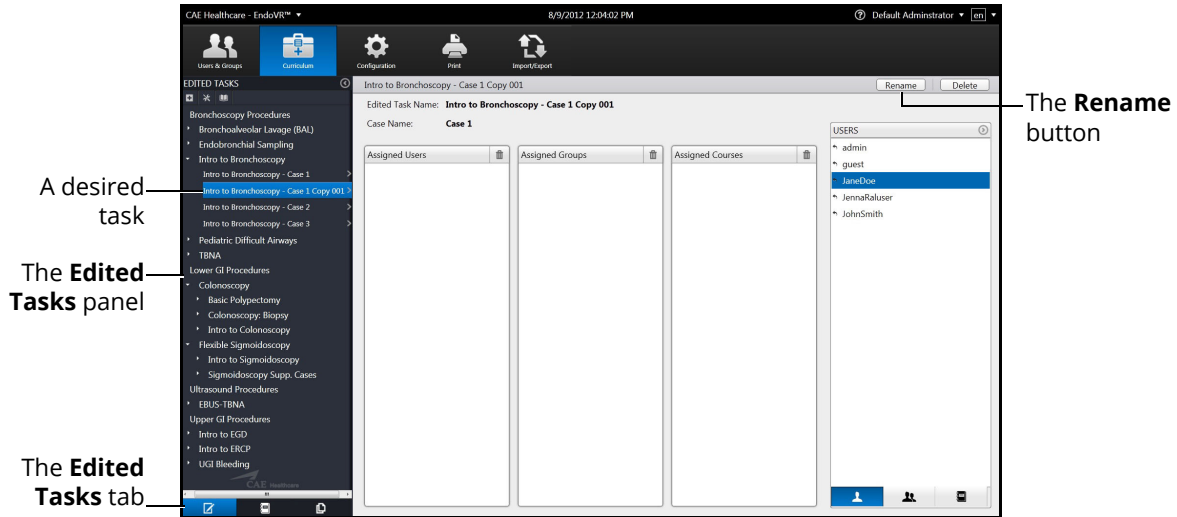


The Edited Tasks Screen

Renaming a Task

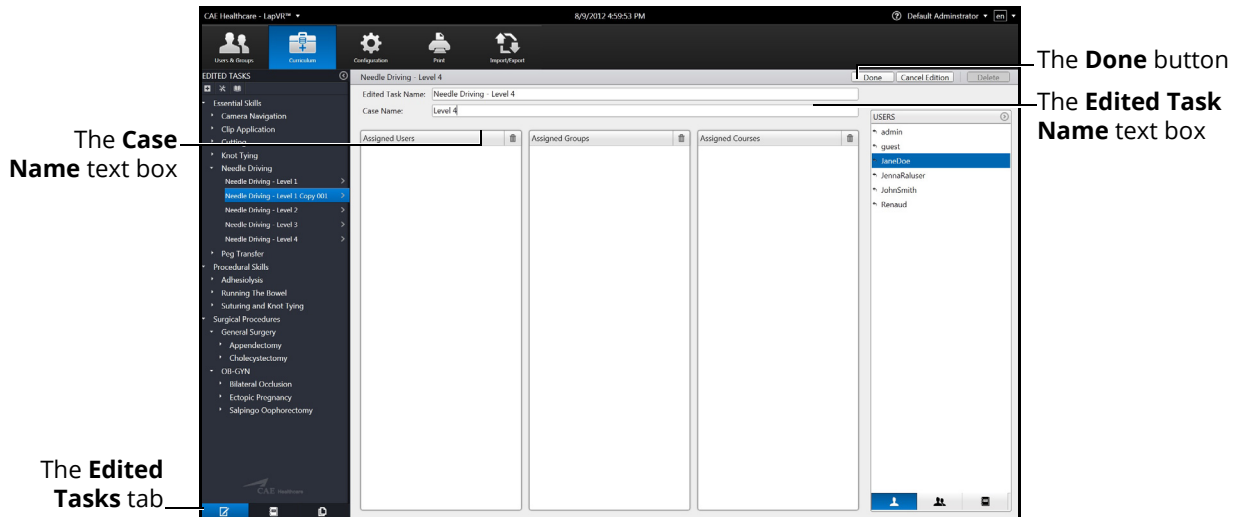
To rename a task:

1. From the **Tasks** panel, select the desired task



The Edited Tasks Screen

2. Click **Rename**



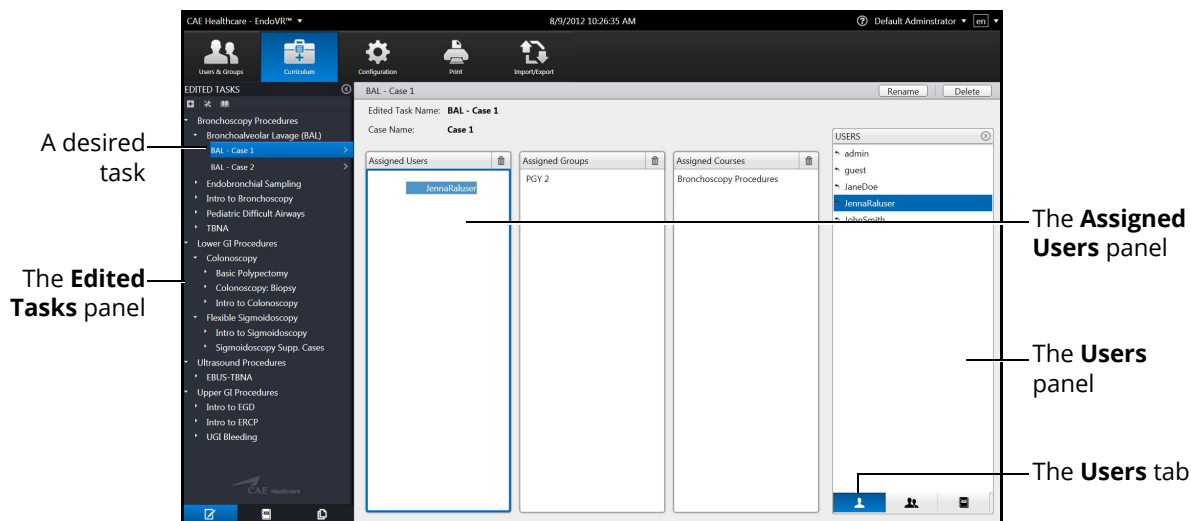
The Edited Tasks Screen

3. Enter the desired named for the new task in the **Task Name** text box
4. Enter the desired case name in the **Case Name** text box
5. Click **Done**

Assigning a User to a Task

To assign a user to a task:

1. From the **Tasks** panel, select the desired task



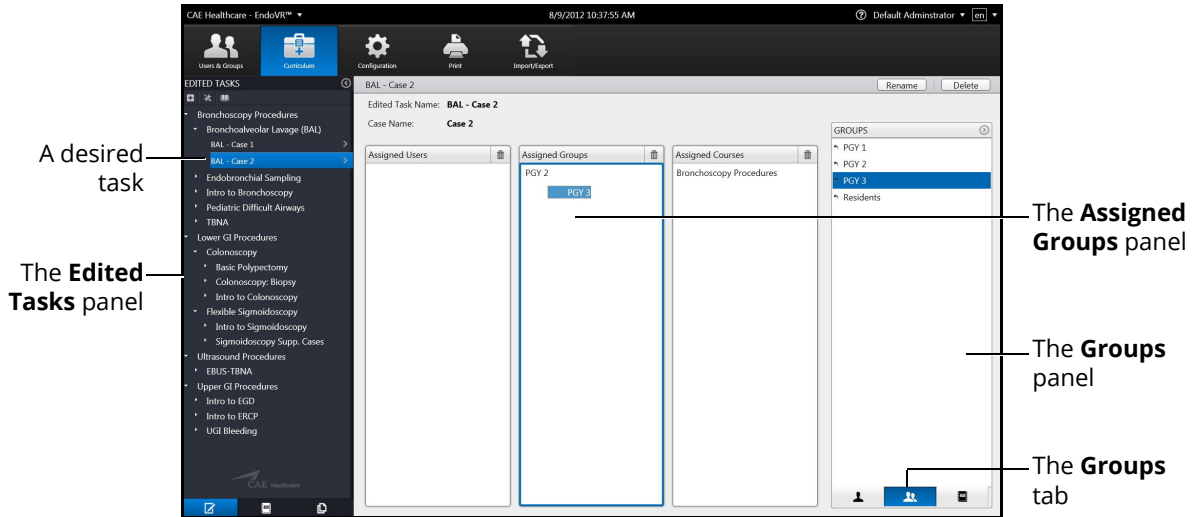
The Edited Tasks Screen

2. From the Tasks screen, click the **Users** tab
3. Select the assigned user in the **Users** panel
4. Drag the user by holding down the left mouse button and navigating the cursor to the **Assigned Users** panel

Assigning a Group to a Task

To assign a group to a task:

1. From the **Tasks** panel, select the desired task



The Edited Tasks Screen

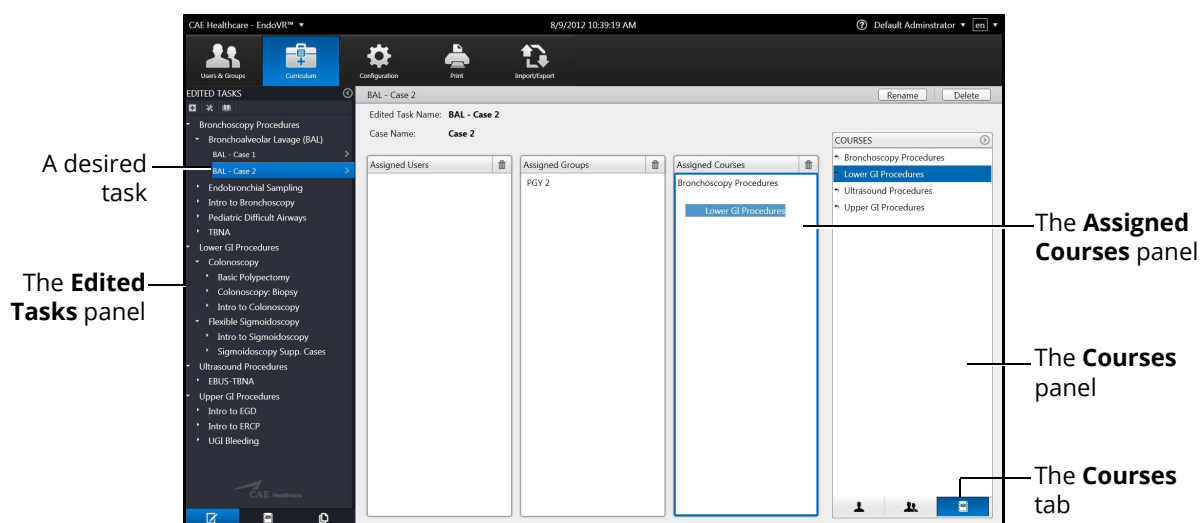
2. From the Tasks screen, click the **Groups** tab
3. Select the desired group in the **Groups** panel
4. Drag the group by holding down the left mouse button and navigating the cursor to the **Assigned Groups** panel

Assigning a Course to a Task

Note: Tasks are assigned to courses automatically based on the task template used to create them. Administrators can modify these course assignments for administrator-created tasks.

To assign a course to a task:

1. From the **Tasks** panel, select the desired task



The Edited Tasks Screen

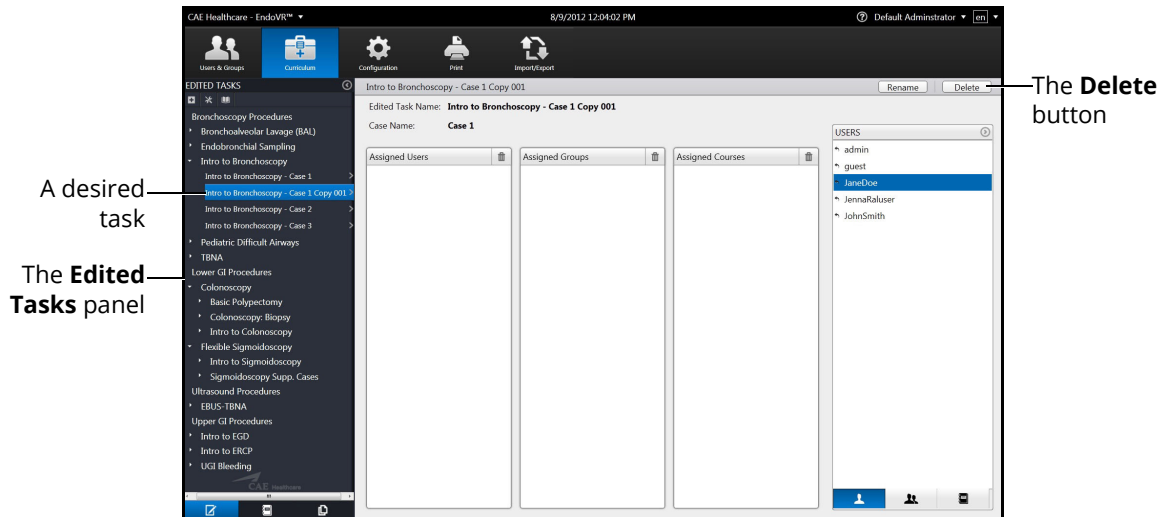
2. Click the **Courses** tab
3. Select the desired course in the **Courses** panel
4. Drag the course by holding down the left mouse button and navigating the cursor to the **Assigned Courses** panel

Deleting a Task

Administrators can delete tasks that are not pre-programmed in the modules (i.e., administrator-created tasks).

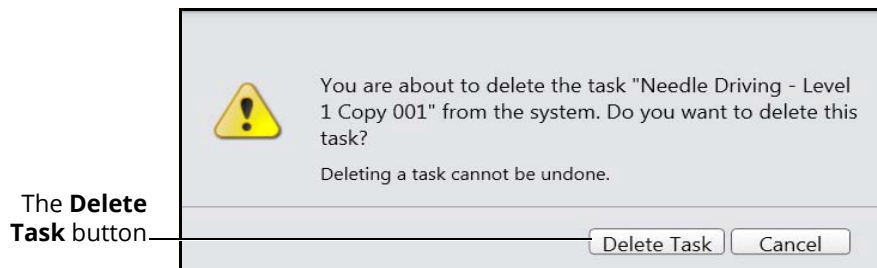
To delete a task:

1. From the **Tasks** panel, select the desired task



The Edited Tasks Screen

2. Click **Delete**



The Delete Task Message

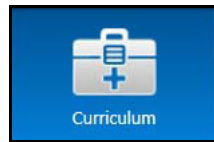
3. Click **Delete Task** to delete the task

Adjusting Task Parameters

Administrators have the ability to adjust the user parameters for certain tasks to increase or decrease the procedural difficulty level for learners.

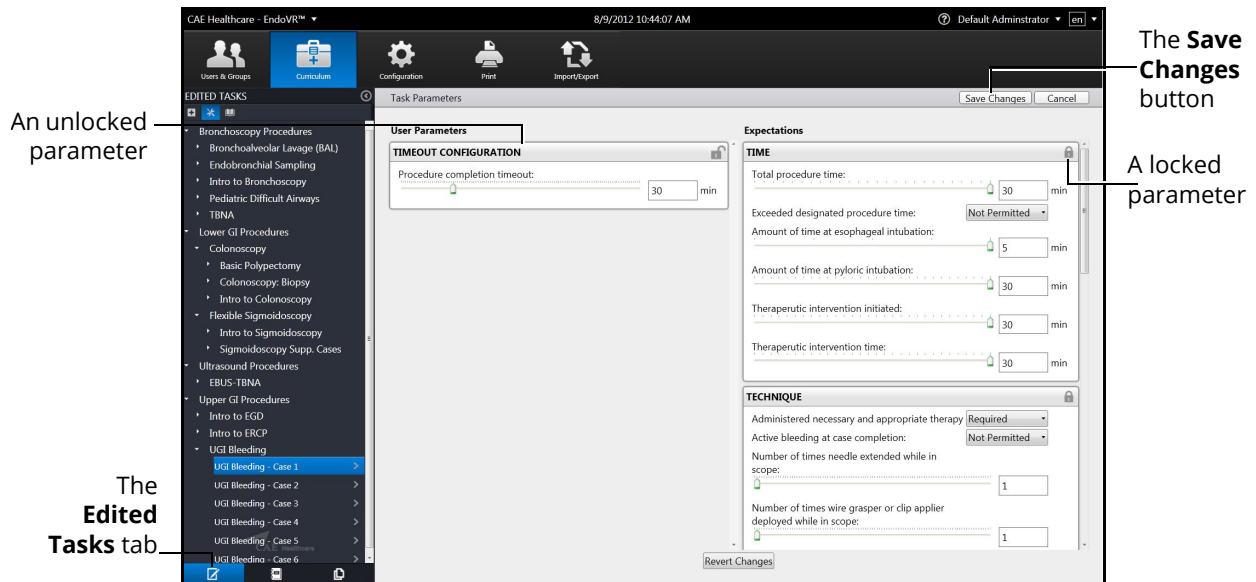
To adjust the task parameters from the **Edited Tasks** tab:

1. From the icon dashboard, click the **Curriculum** icon



The Curriculum Icon

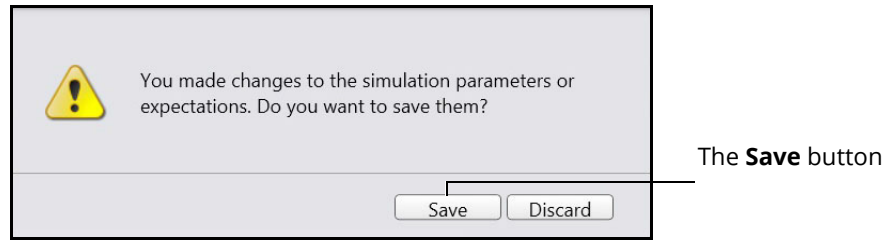
2. From the **Edited Tasks** tab, select a task from the **Edited Tasks** panel
3. Click the **Edit Task Parameters** button



The Edit Task Parameters Screen

4. Adjust the parameters to the desired values
5. Click on the **Lock** icon to unlock parameters. When the **Lock** icon appears closed, the parameter is locked. When the **Lock** icon appears detached, the parameter is unlocked.
6. Click **Save Changes** to save the changes to the task parameters

Note: If a user navigates away from the screen, the **Unsaved Simulation Parameters** message appears.



The Unsaved Simulation Parameters Message

To save the changes, click **Save**

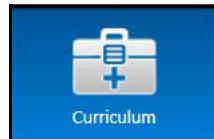
To discard the changes, click **Discard**

Adding Faculty Content

Administrators can upload content that will appear on a separate tab labeled **Faculty Content** within the didactic content options.

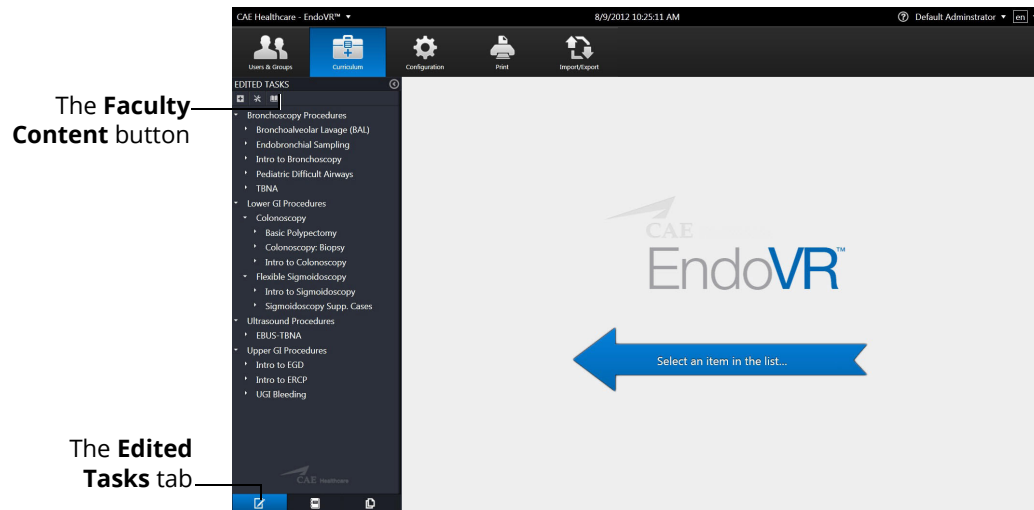
To upload documents for the **Faculty Content** tab:

1. From the icon dashboard, click the **Curriculum** icon



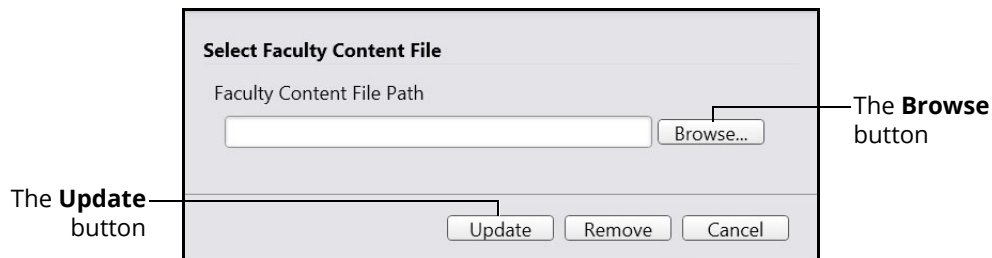
The Curriculum Icon

1. From the Curriculum screen, on the **Tasks** tab, select the desired task associate the content



The Curriculum Screen

2. Click the **Faculty Content** button



The Select Faculty Content File Dialog Box

3. Click **Browse**

Note: If the file is located on an external device, use the USB port located on the back of the simulator to connect the external device to the simulator.

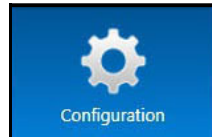
4. Select the .htm or .html file to be uploaded
5. From the **Select File** dialog box, click **Open**
The file name appears in the **Select Faculty Content File Path** field of the **Select Faculty Content File** dialog box.
6. From the **Select Faculty Content File** dialog box, click **Update**
When users access the task, the **Faculty Content** tab appears and the content from the chosen file populates the screen.

Adjusting the Network Settings

The Network Configuration screen is used to set the email server address. The server name must be for an outgoing (SMTP) mail server. This server should provide access to all users and administrators who are to receive reports through the emails function on the Users and Groups screen.

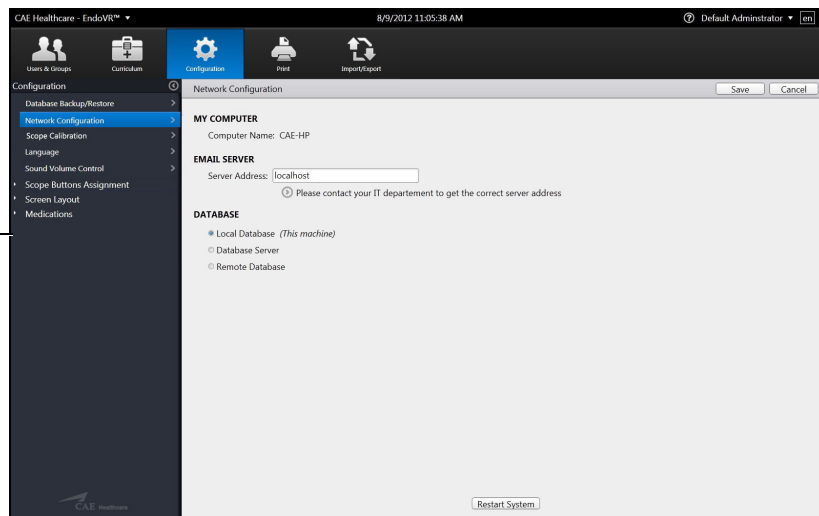
To adjust the network settings:

1. From the icon dashboard, click the **Configuration** icon



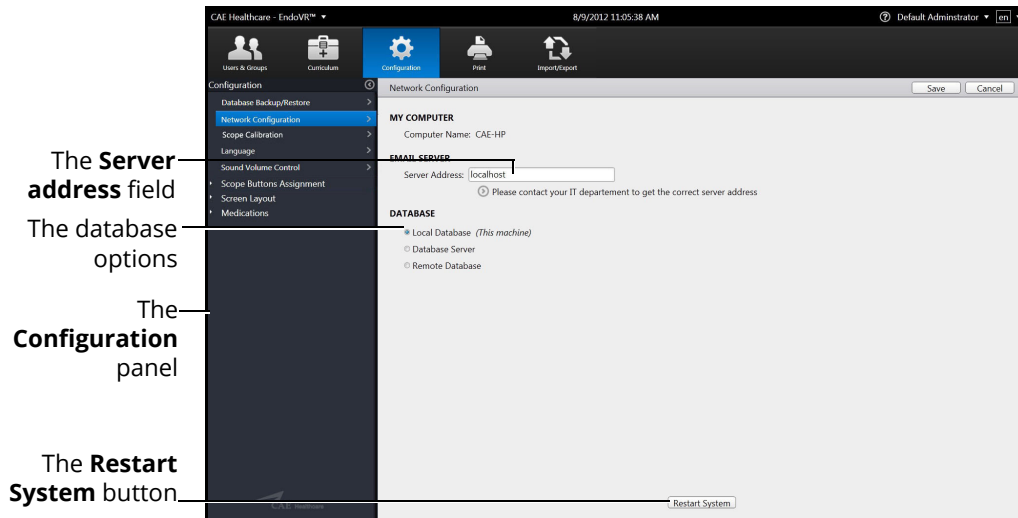
The Configuration Icon

The
Configuration
panel



The Configuration Screen

2. From the Configuration screen, select **Network Configuration** in the **Configuration** panel



The Network Configuration Screen

3. Enter the SMTP server address in the **Server address** field
4. Select a database option
5. Click **Restart System** to save the information and update the settings

Emailing Users and Groups

Administrators have the ability to coordinate automated email correspondence with individual users and groups. Administrators can customize email settings to include content such as user profiles, reports and usage summaries, provide a return email address and set up a recurring auto update.

Once the emails settings are customized, the administrator can send the email immediately or save the email to send at a later time.

Note: To send emails from the simulator, a network connection is required and the administrator must configure the SMTP network information in the simulator.

Emailing Users

Administrators can send emails containing user profiles, usage summaries and reports to individual users.

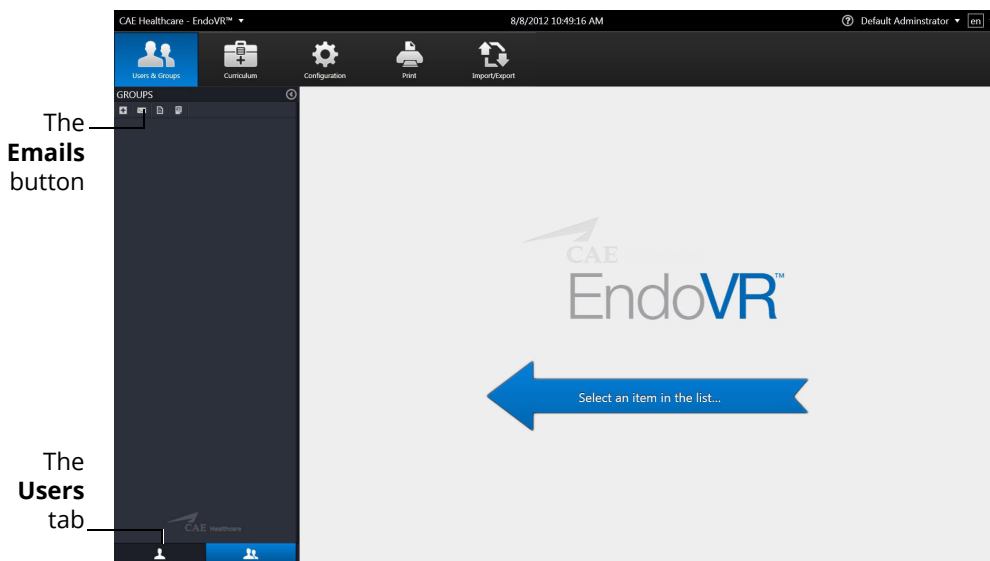
To send an email to an individual user:

1. From the icon dashboard, click the **Users & Groups** icon

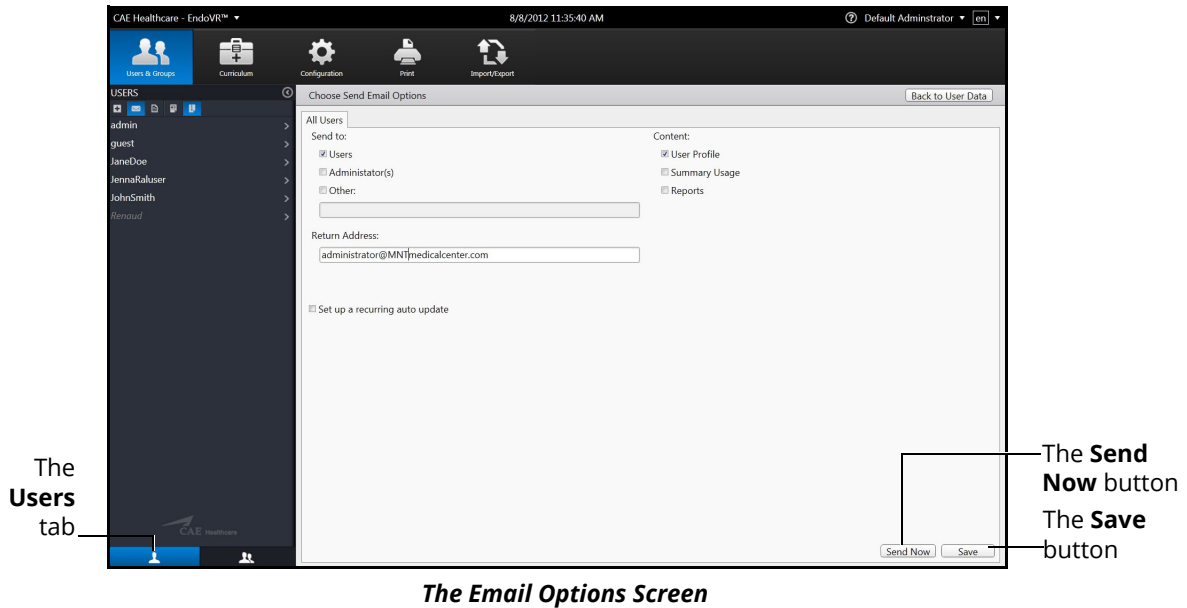


The Users & Groups Icon

2. From the Users and Groups screen, on the **Users** tab, click the **Emails** button



The Users & Groups Screen



Note: If a user is selected from the **Users** panel, the Email Options screen displays a tab specifically for the user. Otherwise, the **All Users** tab displays.

3. Select the recipients for the email
4. Select the content for the email. Content options include **User Profile**, **Summary Usage** and **Reports**
5. Enter a return email address in the **Return Address** text box, if desired
6. Select the **Set a recurring auto update** checkbox, if desired
7. Click **Send Now** to send the email immediately

Note: Email settings can be customized and saved to send at a later time. To save an email to send later, click **Save**.

Emailing Groups

Administrators can send emails containing user profiles, usage summaries and reports to groups.

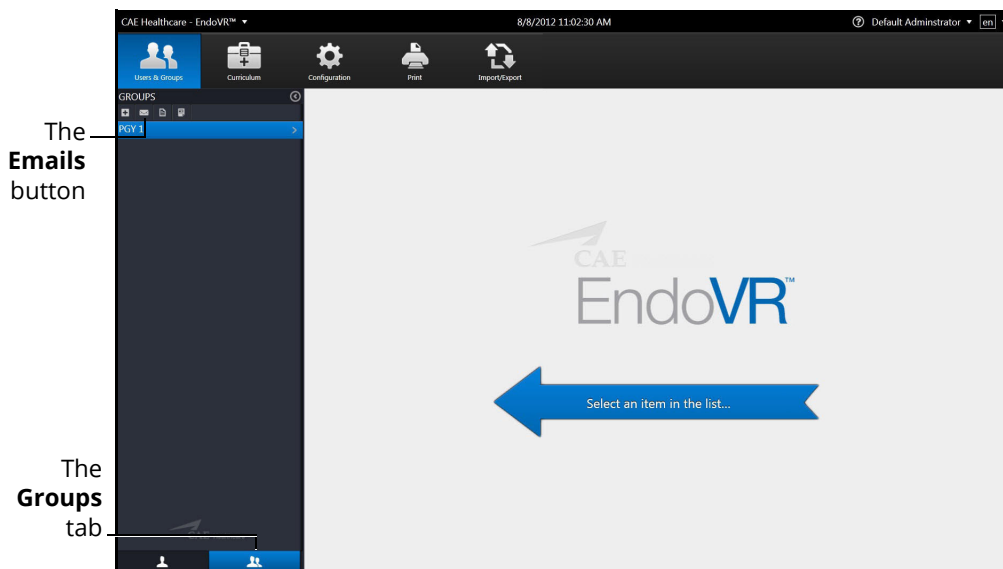
To send an email to a group:

1. From the icon dashboard, click the **Users & Groups** icon

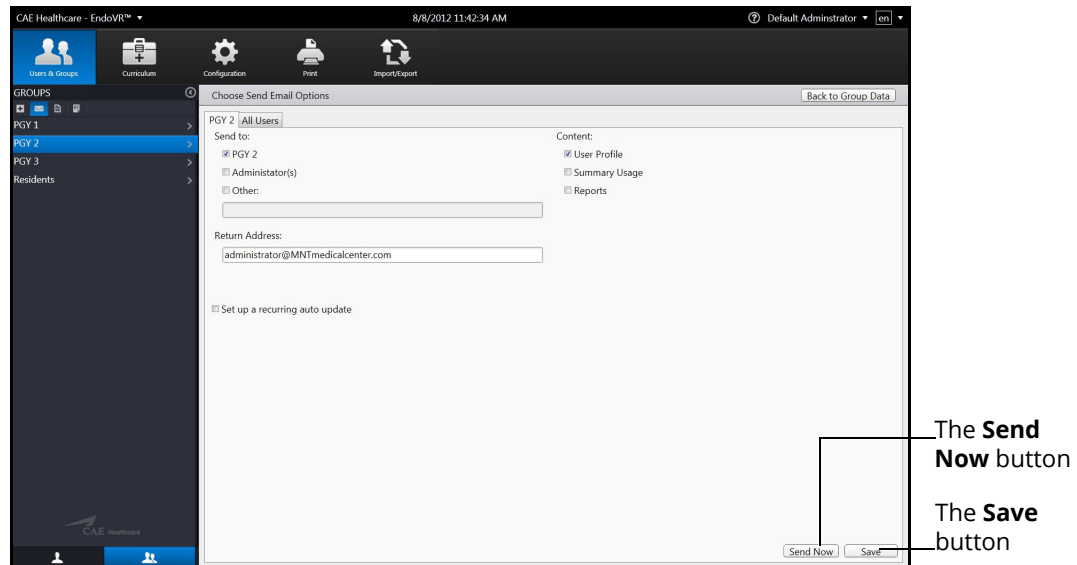


The Users & Groups Icon

2. From the Users and Groups screen, on the **Groups** tab, click the **Emails** button



The Users & Groups Screen - Groups Tab



The Email Options Screen

3. Select the group name tab or **All Users** tab
4. Select the recipients for the email
5. Select the content for the email. Content options include **User Profile, Summary Usage** and **Reports**
6. Enter a return email address in the **Return Address** text box, if desired
7. Select the **Set a recurring auto update** checkbox, if desired
8. Click **Send Now** to send the email immediately

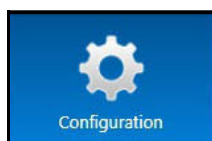
Note: Email settings can be customized and saved to send at a later time. To save an email to send later, click **Save**.

Backing Up the Database

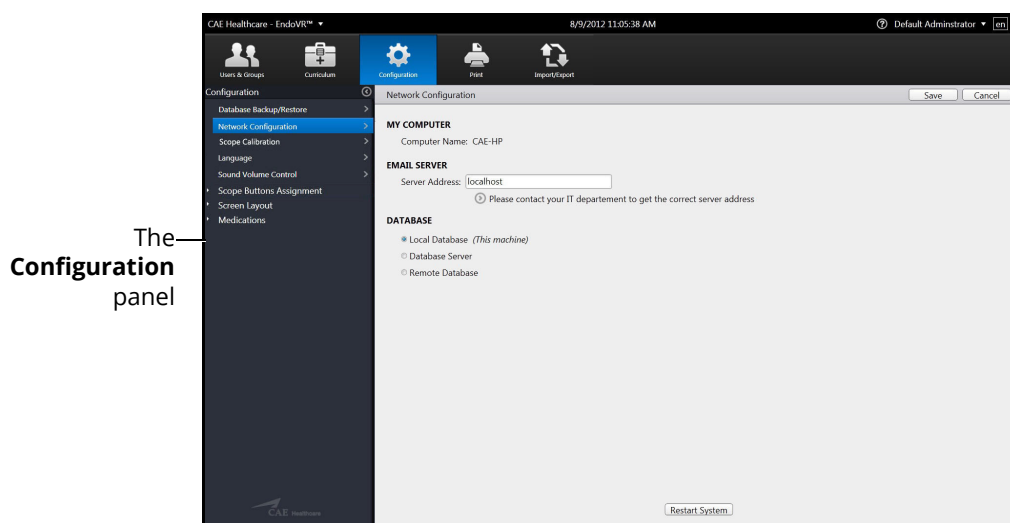
Administrators can back up the simulator database using the Database Backup feature located on the Configuration screen.

To back up the simulator database:

1. From the icon dashboard, click the **Configuration** icon

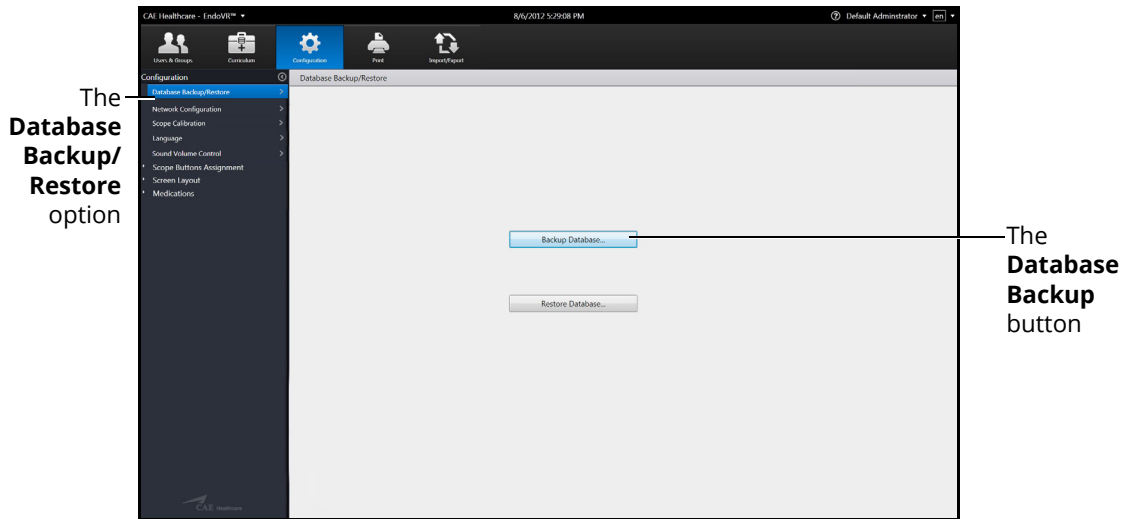


The Configuration Icon



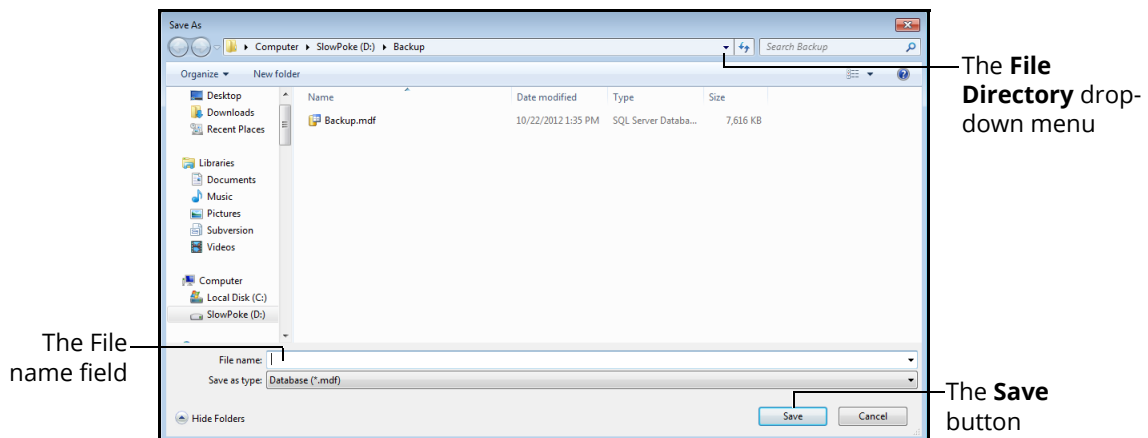
The Configuration Screen

2. From the Configuration screen, select the **Database Backup/Restore** option from the **Configuration** panel



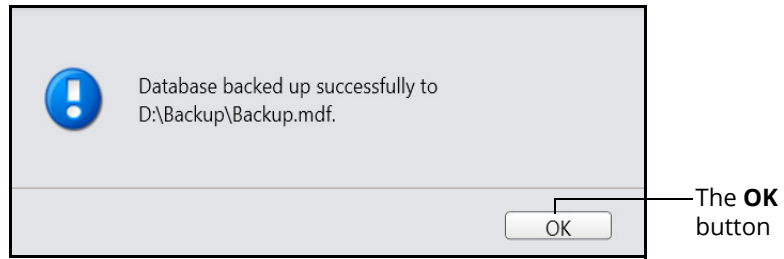
The Database Backup/Restore Screen

3. Click the **Database Backup** button



The Save As Window

4. Click the **File Directory** drop-down menu to navigate to the desired location where the backup file will be stored
5. Enter the desired file name for the database backup file in the **File name** field
6. Click **Save**



The Database Backed Up Successfully Message

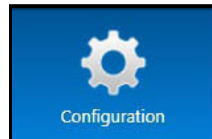
7. Click **OK** to return to the Database Backup/Restore screen

Restoring the Database

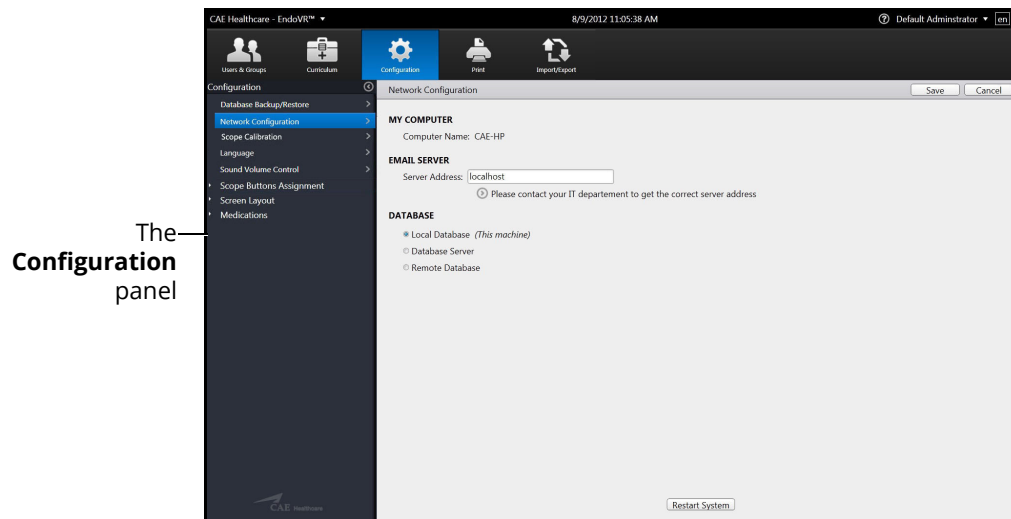
Administrators can restore the simulator database using the Database Restore feature located on the Configuration screen.

To back up the simulator database:

1. From the icon dashboard, click the **Configuration** icon

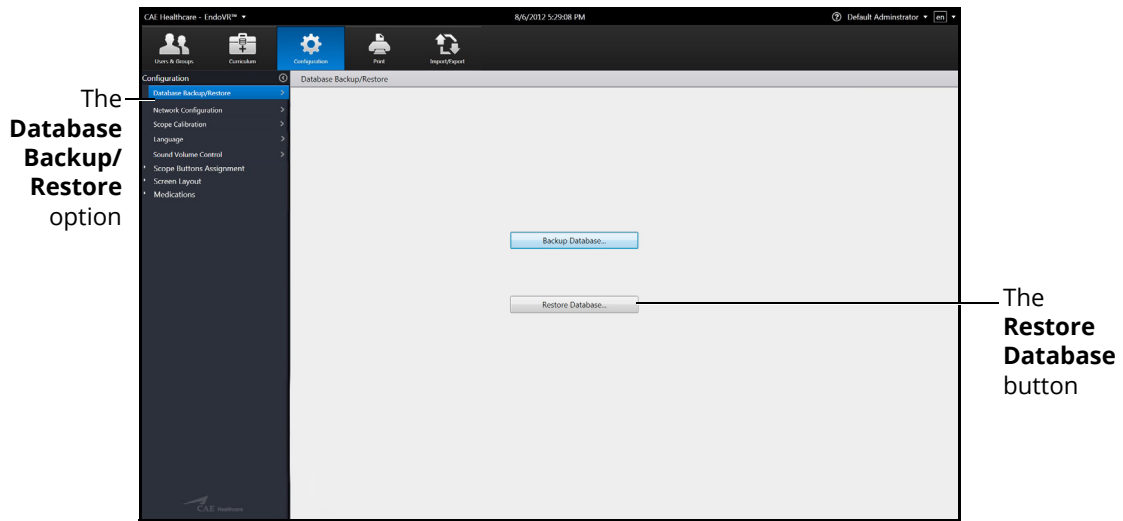


The Configuration Icon



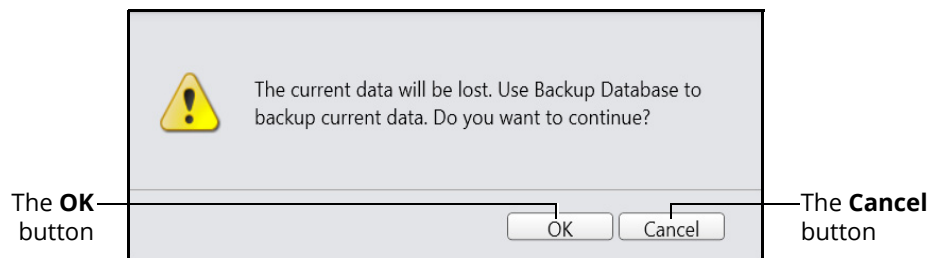
The Configuration Screen

2. From the Configuration screen, select the **Database Backup/Restore** option from the **Configuration panel**



The Database Backup/Restore Screen

3. Click the **Restore Database** button



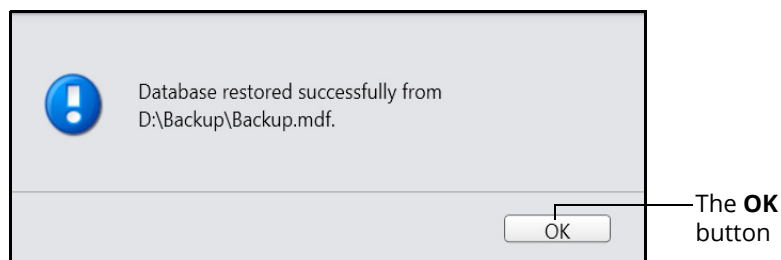
The Back Up Current Data Warning Message

Note: The message states any data that has been added, deleted or modified since the last backup will be lost when a restore is performed.

Click **Cancel** to cancel the restore and return to the Database Backup/Restore screen to perform a backup.

4. Click **OK** to continue with the restore

The **Database restored successfully** message appears.



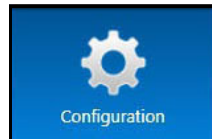
The Database Restored Successfully Message

5. Click **OK** to return to the Database Backup/Restore screen

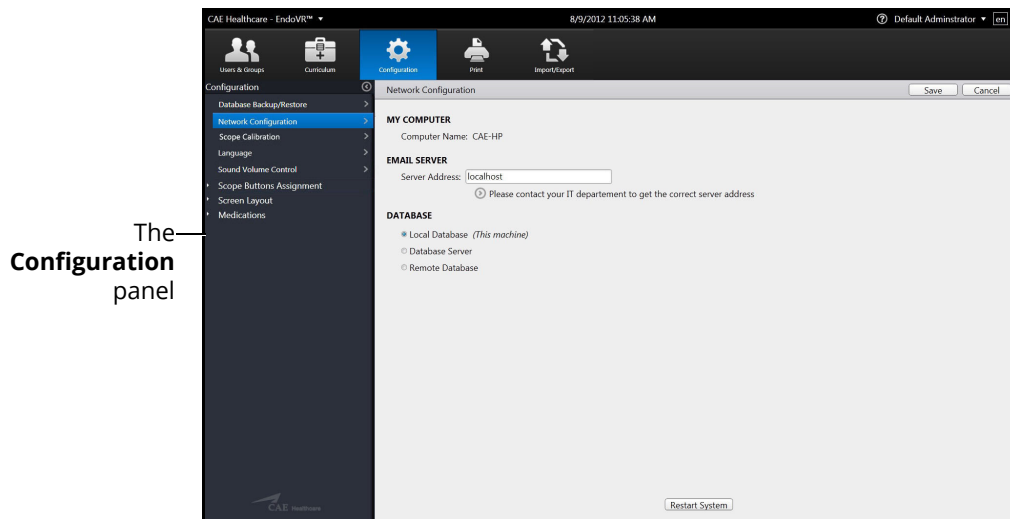
Calibrating the Scopes

The calibration tool is used to ensure that the physical scope tracks properly with the virtual scope during the simulations. Administrators are required to perform calibrations after a new installation or when the physical scope manipulation does not correspond with the virtual scope display on screen during a simulation.

1. From the icon dashboard, click the **Configuration** icon

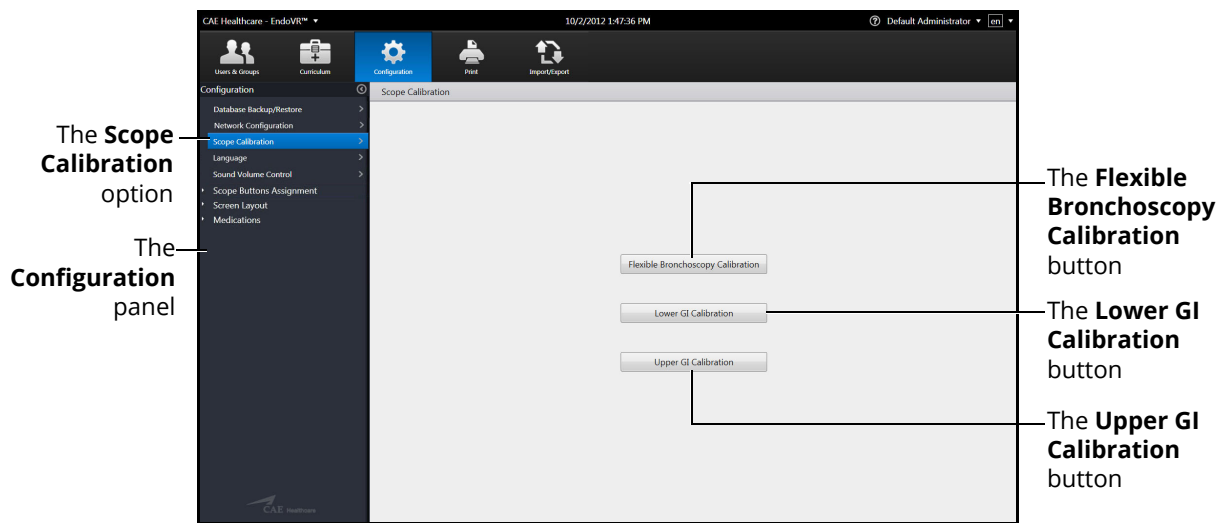


The Configuration Icon



The Configuration Screen

2. From the Configuration screen, select **Scope Calibration** in the **Configuration** panel



The Scope Calibration Screen

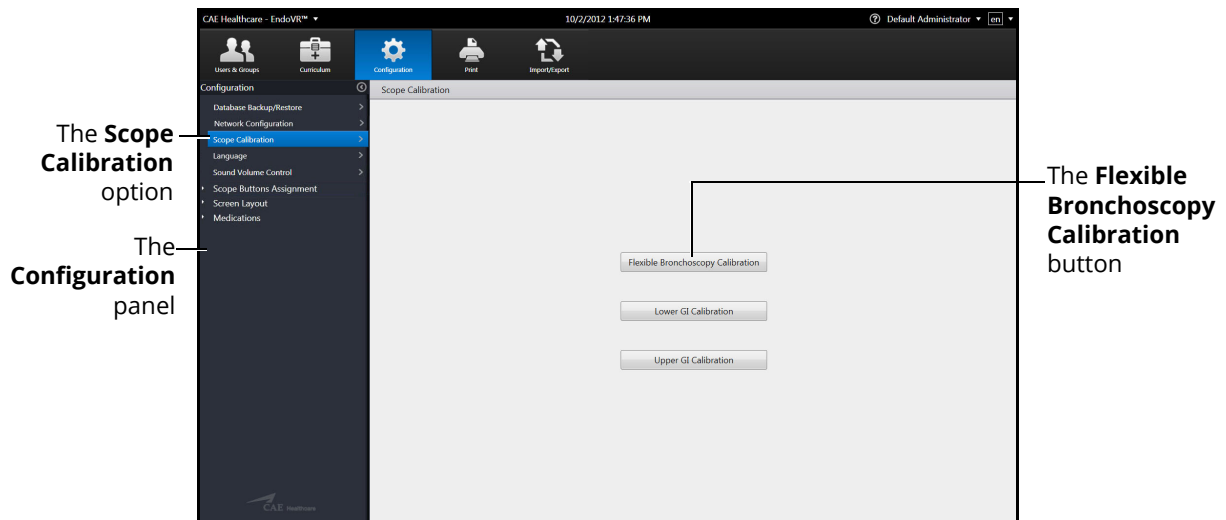
From the Scope Calibration screen, administrators can run the necessary calibrations for their purchased modules.

Running the Flexible Bronchoscopy Calibration

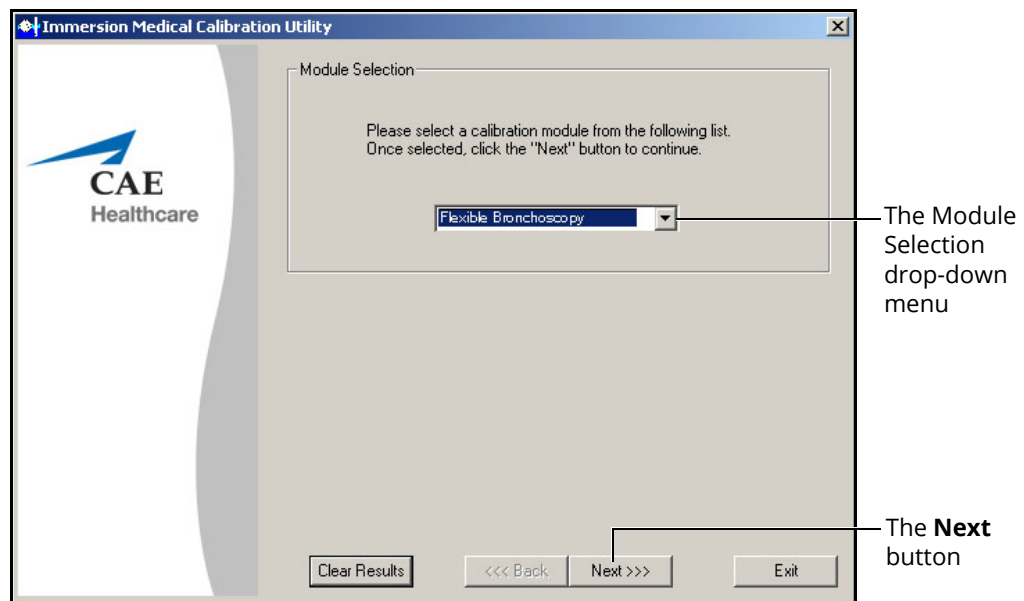
Administrators should run the Flexible Bronchoscopy Calibration Utility after a new installation or to correct the physical scope's correspondence with the virtual representation in the software.

Before beginning the Bronchoscopy Calibration Utility, ensure that the bronchoscope and EBUS-TBNA accessory tool are connected to the ports on the back of the simulator.

1. From the Scope Calibration screen, select the **Flexible Bronchoscopy Calibration** button



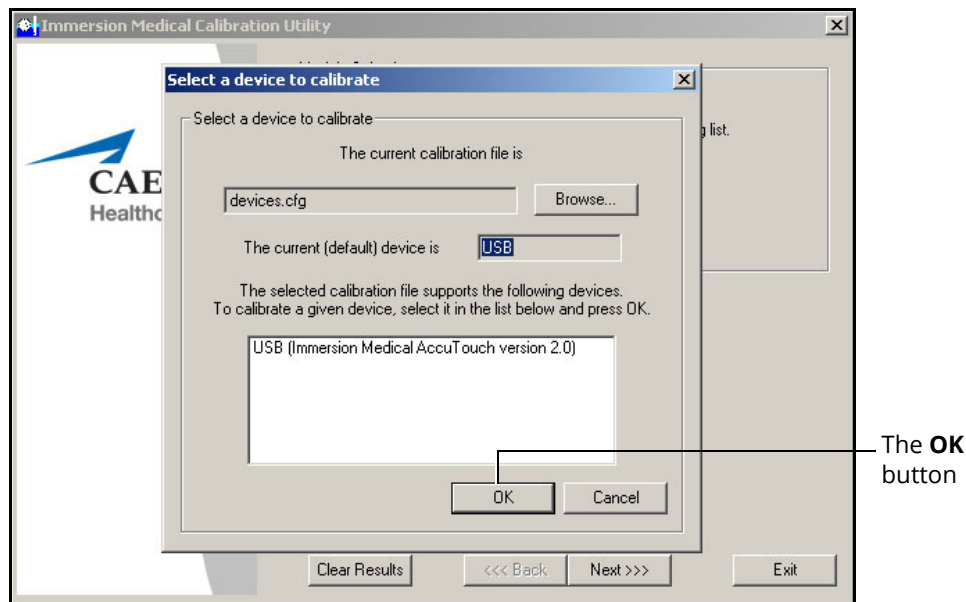
The Scope Calibration Screen



The Module Selection Window

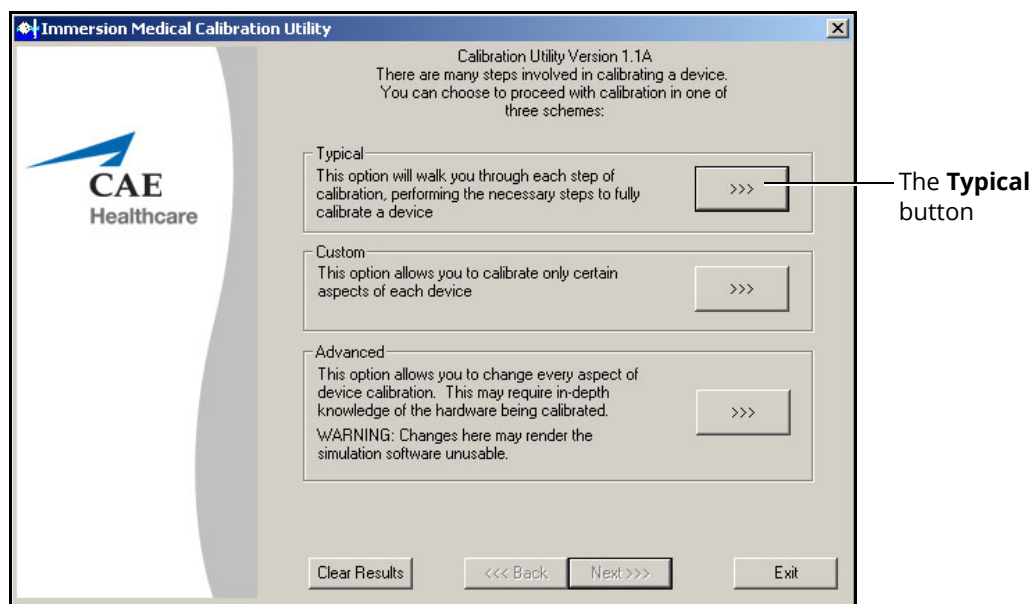
2. From the Module Selection drop-down menu in the Module Selection window, select the appropriate module

3. Click **Next**



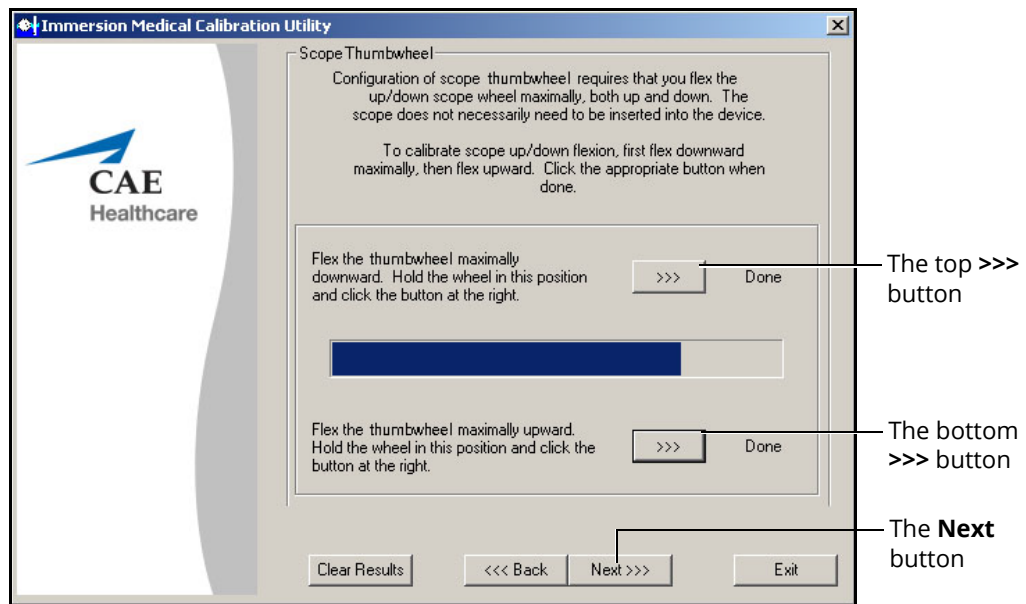
The Select a Device to Calibrate Window

4. Click **OK**



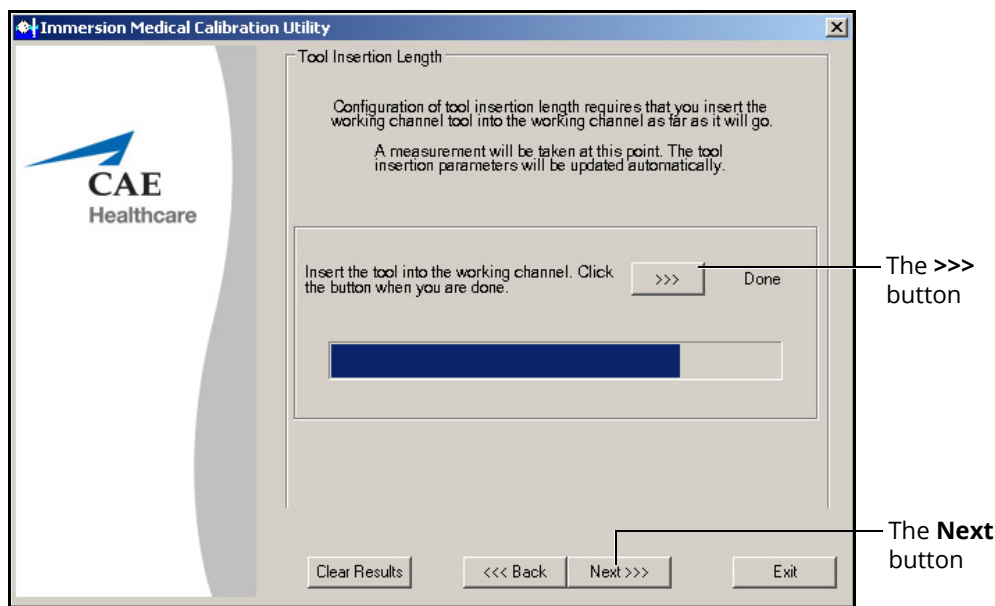
The Calibration Options Window

5. Click the **Typical** button



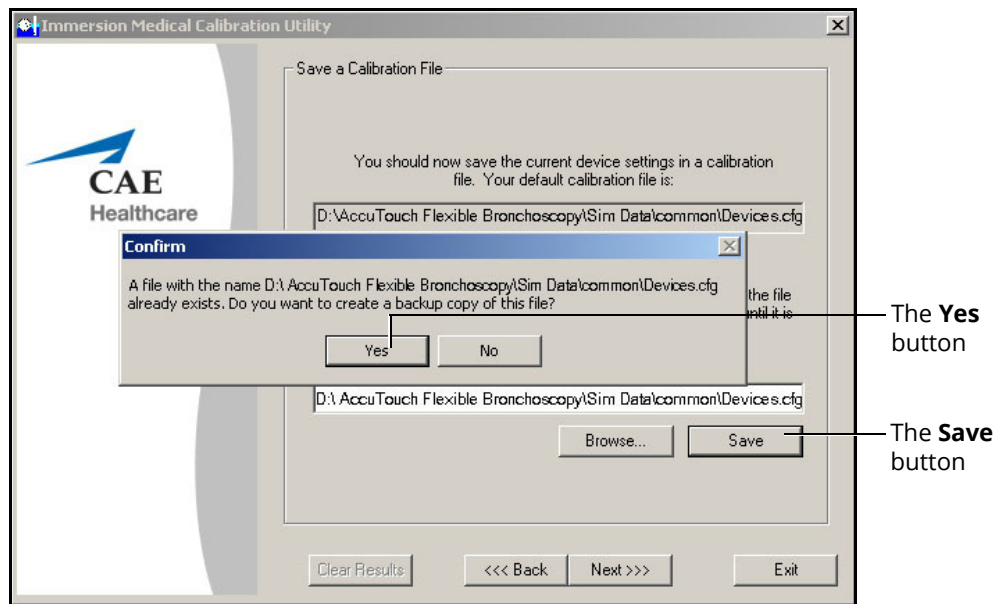
The Scope Thumb wheel Window

6. Flex the thumb wheel downward on the scope as far as it will go and hold the thumb wheel down
7. On the Scope Thumb wheel window, click the top >>> button
The blue bar moves to the right and the calibration is complete when the word Done appears next the >>> button.
8. Flex the thumb wheel upward on the scope as far as it will go and hold the thumb wheel up
9. On the Scope Thumb wheel window, click the bottom >>> button
The blue bar moves to the left and the calibration is complete when the word Done appears next the >>> button.
10. Click **Next**



The Tool Insertion Length Window

11. Insert the EBUS-TBNA accessory tool filament into the working channel of the scope as far as it will go
12. Click the >>> button
The calibration is complete when the word Done appears next the >>> button
13. Click **Next**
14. Click **Save** to save the calibration settings



The Save a Calibration File Window and Confirmation Message

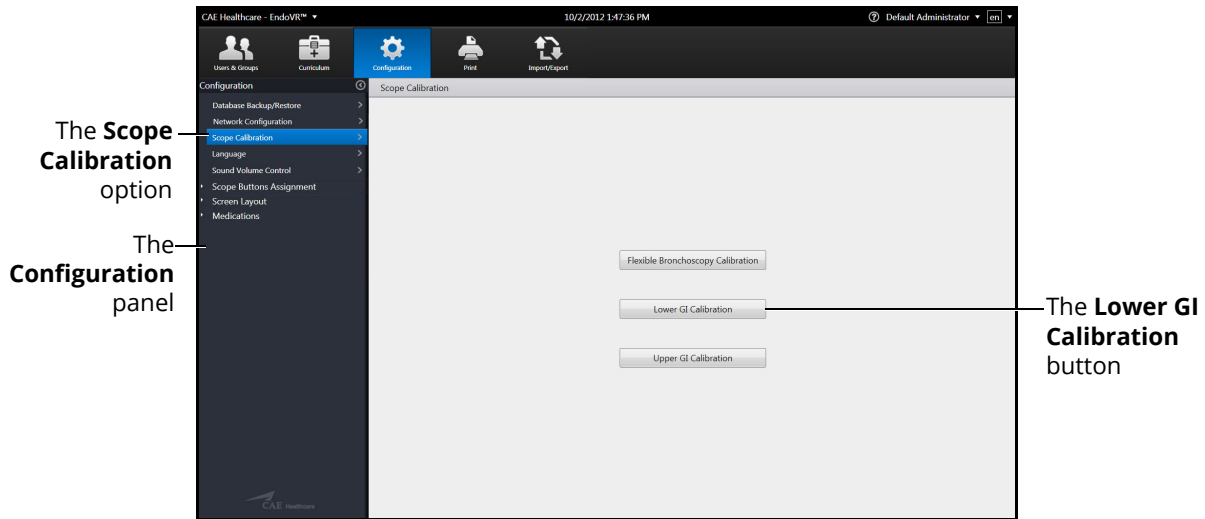
15. Click **Yes**

Running the Lower GI Calibration

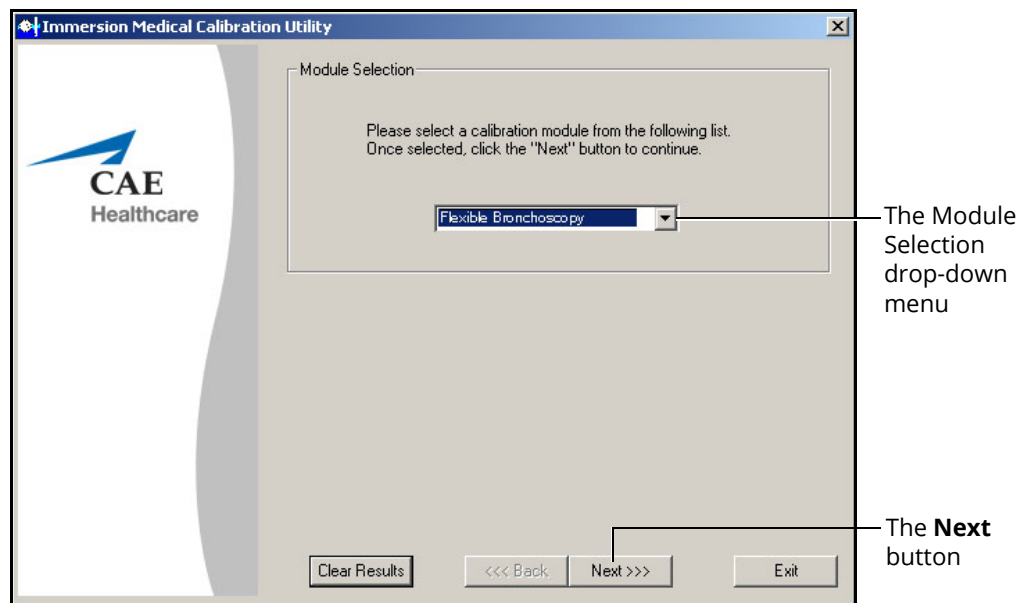
Administrators should run the Lower GI Calibration Utility after a new installation or to correct the physical scope's correspondence with the virtual representation in the software.

Before beginning the Lower GI Calibration Utility, ensure that the endoscope is connected to the port on the back of the simulator.

1. From the Scope Calibration screen, select the **Lower GI Calibration** button

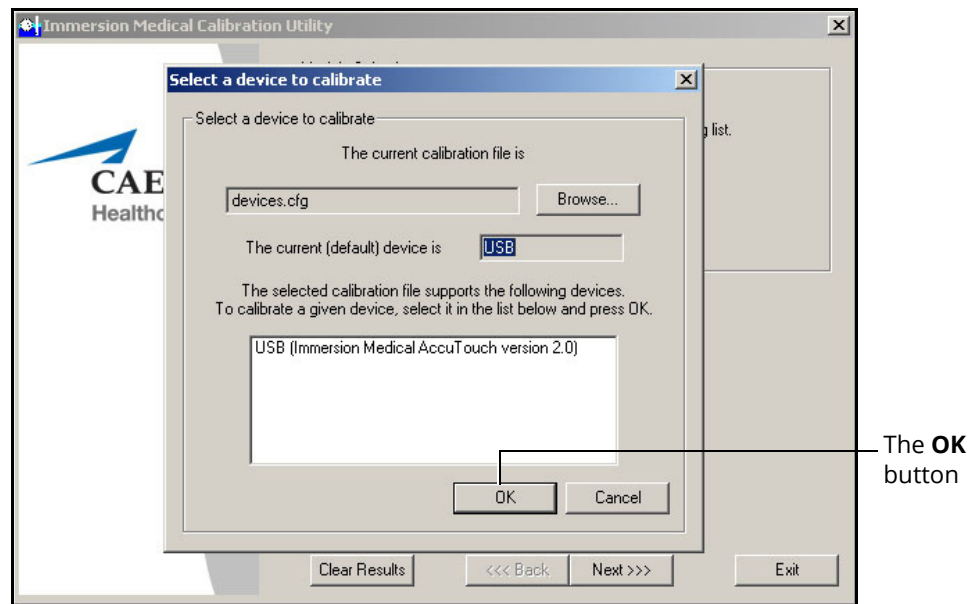


The Scope Calibration Screen



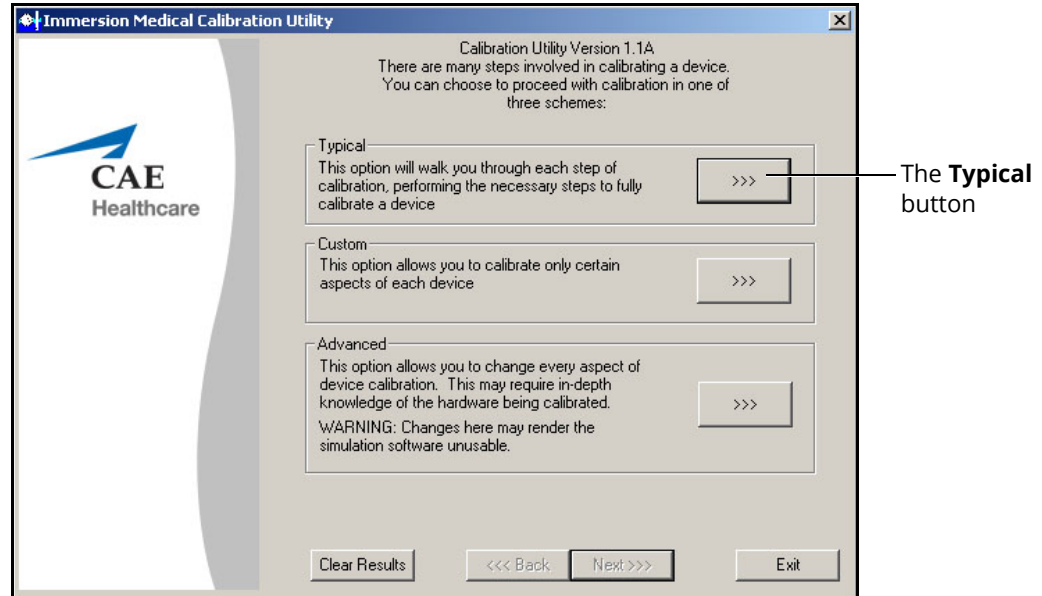
The Module Selection Window

2. From the **Module Selection** drop-down menu in the Module Selection window, select the appropriate module
3. Click **Next**



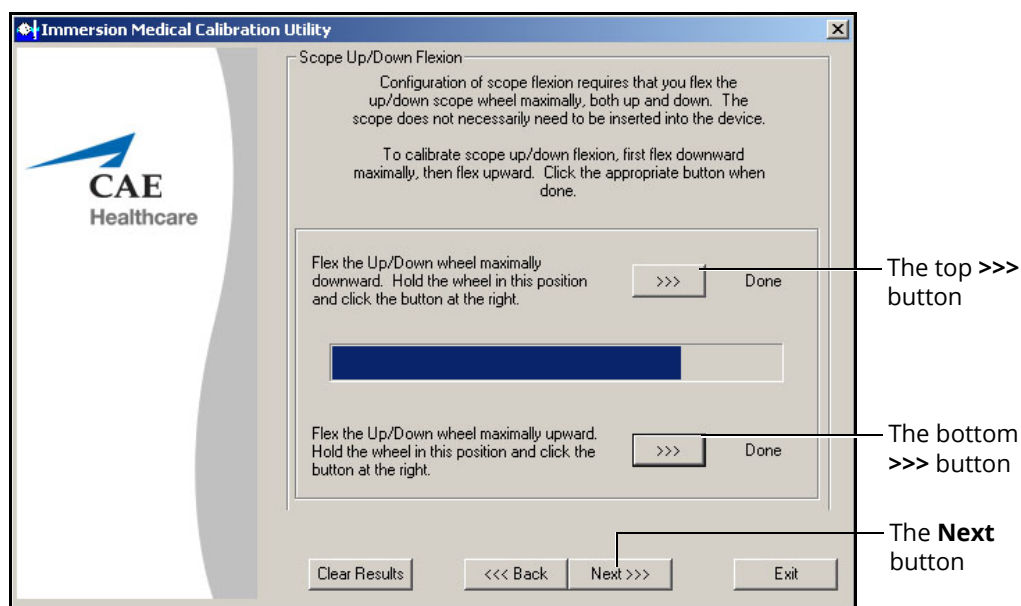
The Select a Device to Calibrate Window

4. Click **OK**



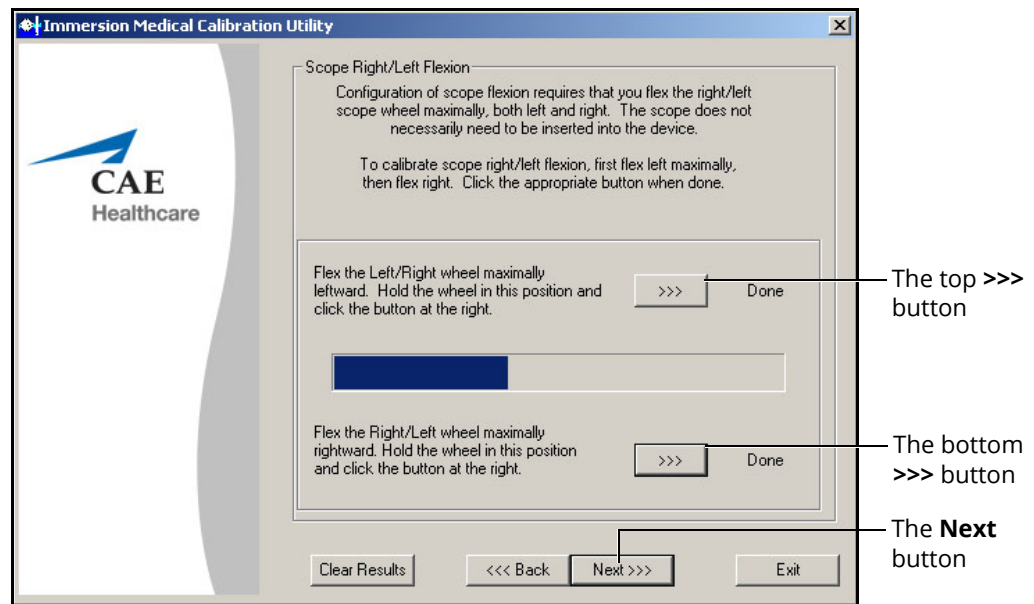
The Calibration Options Window

5. Click the **Typical** button



The Scope Up/Down Flexion Window

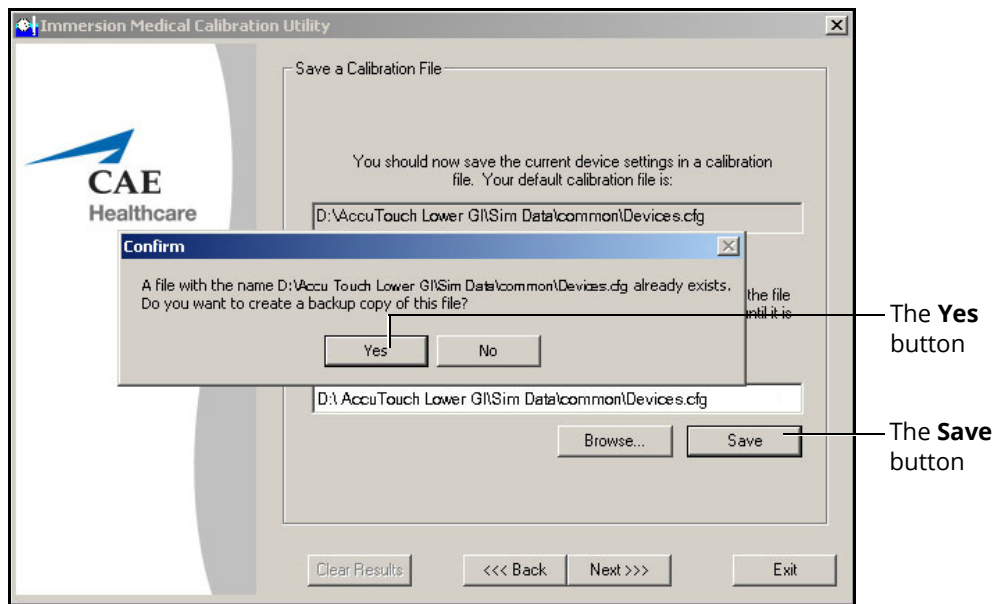
6. Flex the Up/Down wheel downward on the scope as far as it will go and hold the wheel down
7. On the Scope Up/Down window, click the top >>> button
The blue bar moves to the left and the downward calibration is completed when the word Done appears next the >>> button.
8. Flex the Up/Down upward on the scope as far as it will go and hold the wheel up
9. On the Scope Up/Down window, click the bottom >>> button
The blue bar moves to the right and the downward calibration is completed when the word Done appears next the >>> button.
10. Click **Next**



The Scope Right/Left Flexion Window

11. Turn the right/left wheel on the scope counterclockwise as far as it will go and hold the wheel in this position
12. On the Scope Right/Left Flexion window, click the top >>> button
The blue bar moves to the right and the calibration is complete when the word Done appears next the >>> button.
13. Turn the right/left wheel on the scope clockwise as far as it will go and hold the wheel in this position
14. On the Scope Right/Left Flexion window, click the bottom >>> button
The blue bar moves to the left and the calibration is complete when the word Done appears next the >>> button.
15. Click **Next**
16. Click **Save** to save the calibration settings

The Confirmation message appears.



The Save a Calibration File and Confirmation Message

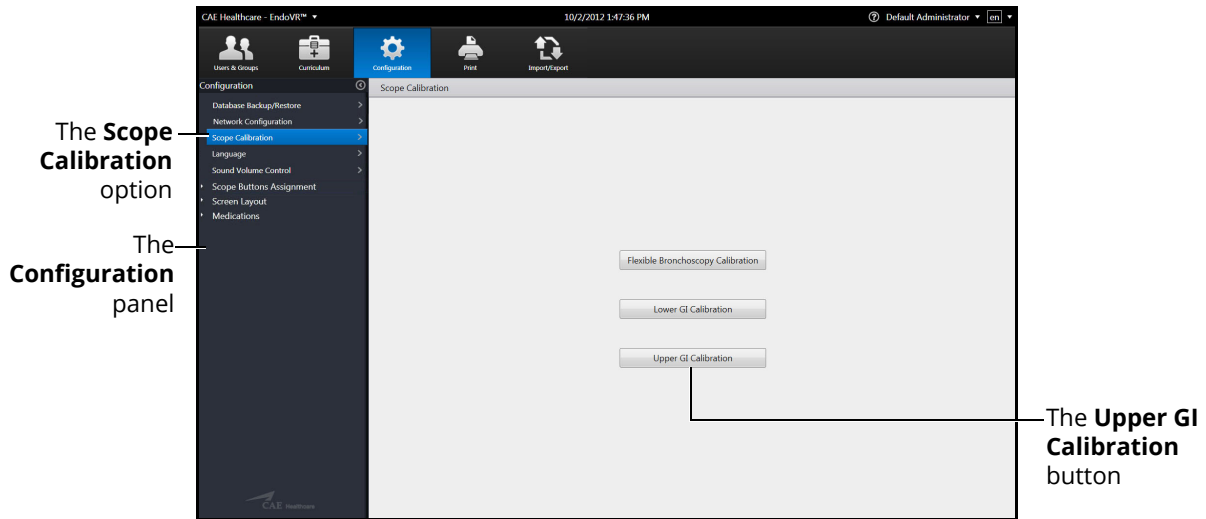
17. Click **Yes**

Running the Upper GI Calibration

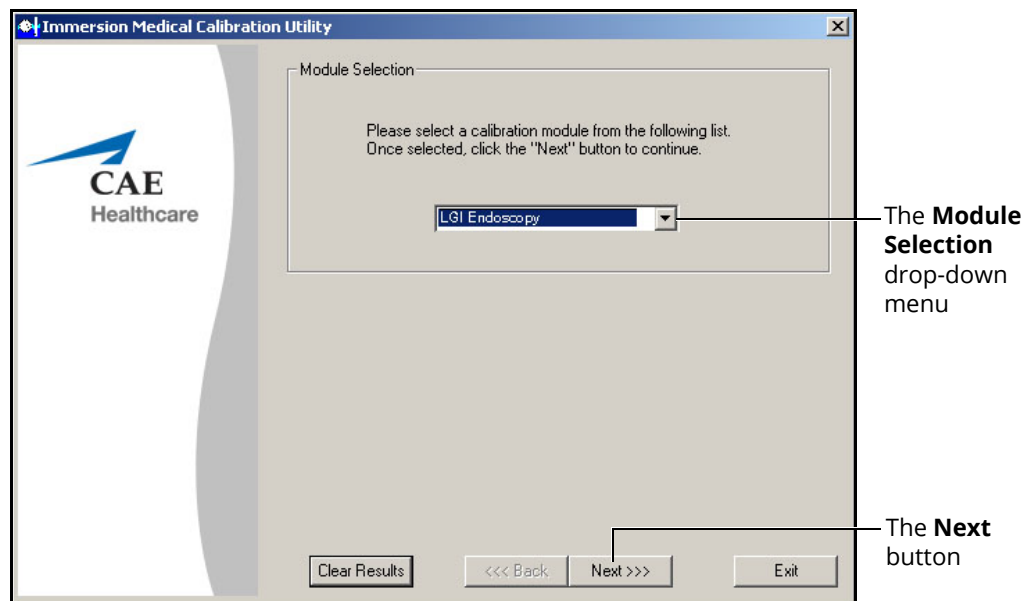
Administrators should run the Upper GI Calibration Utility after a new installation or to correct the physical scope's correspondence with the virtual representation in the software.

Before beginning the Upper GI Calibration Utility, ensure that the endoscope and the needle accessory tool are connected to the ports on the back of the simulator.

1. From the Scope Calibration screen, select the **Upper GI Calibration** button

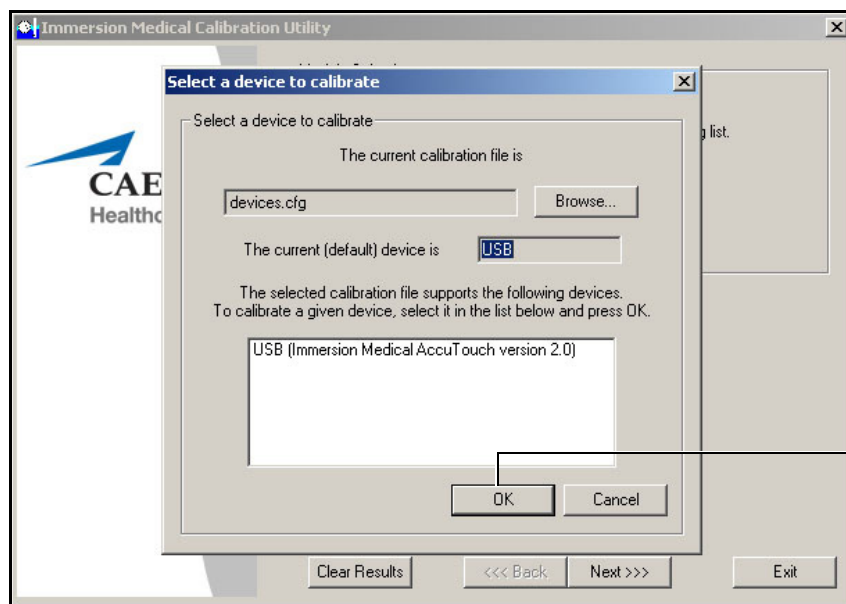


The Scope Calibration Screen



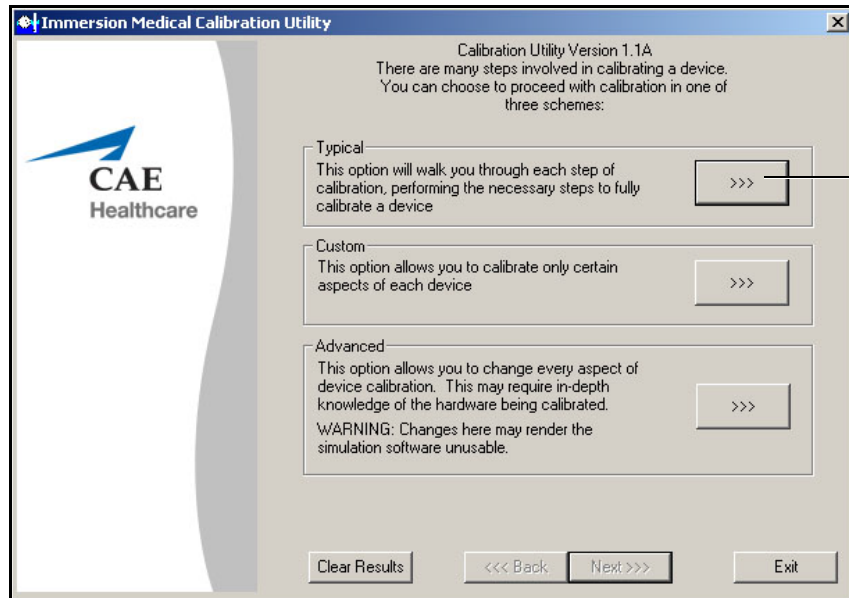
The Module Selection Window

2. From the **Module Selection** drop-down menu in the Module Selection window, select the appropriate module
3. Click **Next**



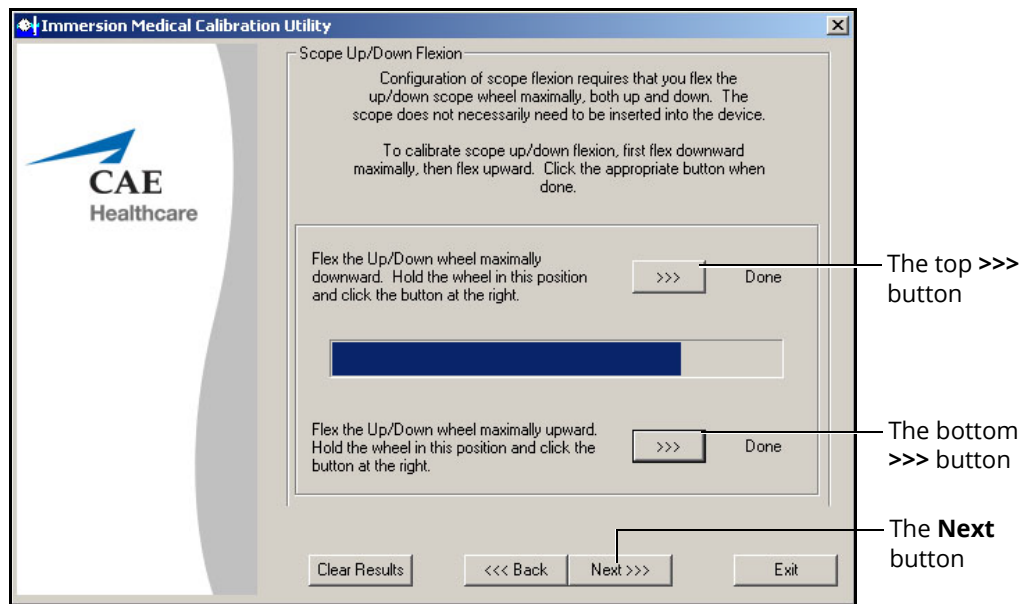
The Select a Device to Calibrate Window

4. Click **OK**



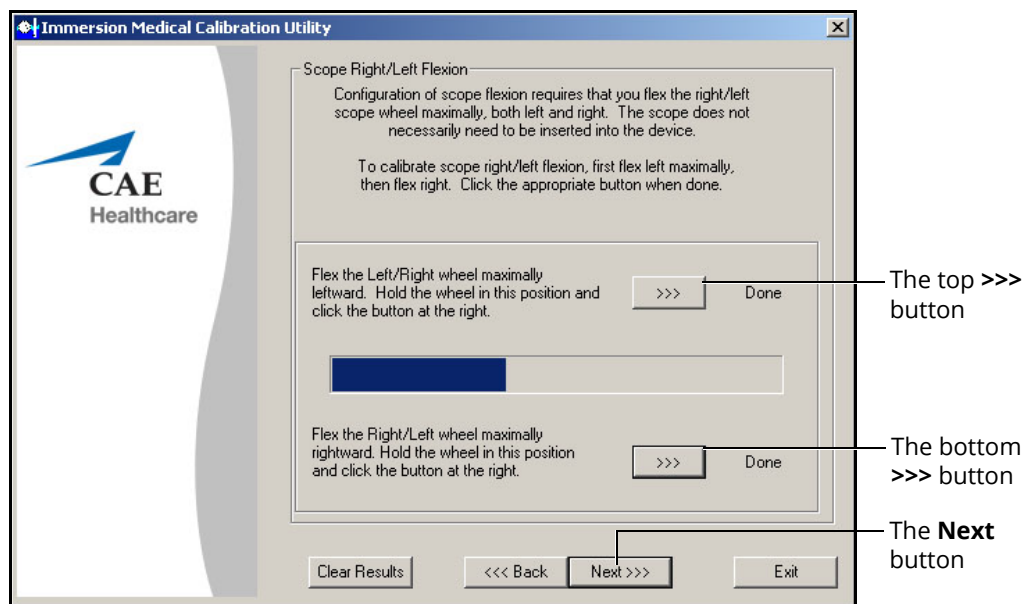
The Calibration Options Window

5. Click the **Typical** button



The Scope Up/Down Flexion Window

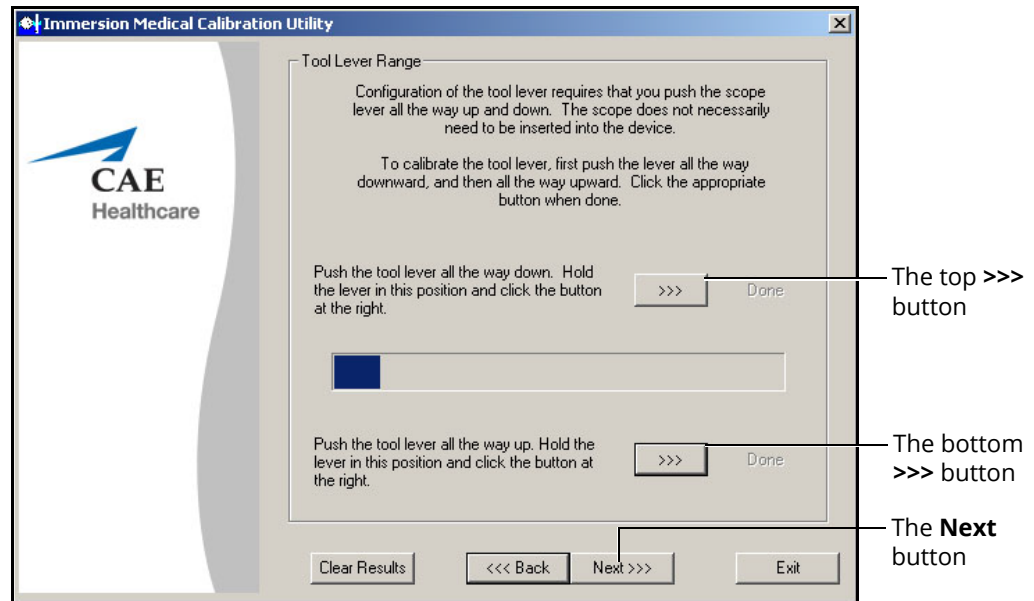
6. Flex the Up/Down wheel downward on the scope as far as it will go and hold the wheel down
7. On the Scope Up/Down window, click the top >>> button
The blue bar moves to the left and the calibration is complete when the word Done appears next the >>> button.
8. Flex the Up/Down upward on the scope as far as it will go and hold the wheel up
9. On the Scope Up/Down window, click the bottom >>> button
The blue bar moves to the right and the calibration is complete when the word Done appears next the >>> button.
10. Click **Next**



The Scope Right/Left Flexion Window

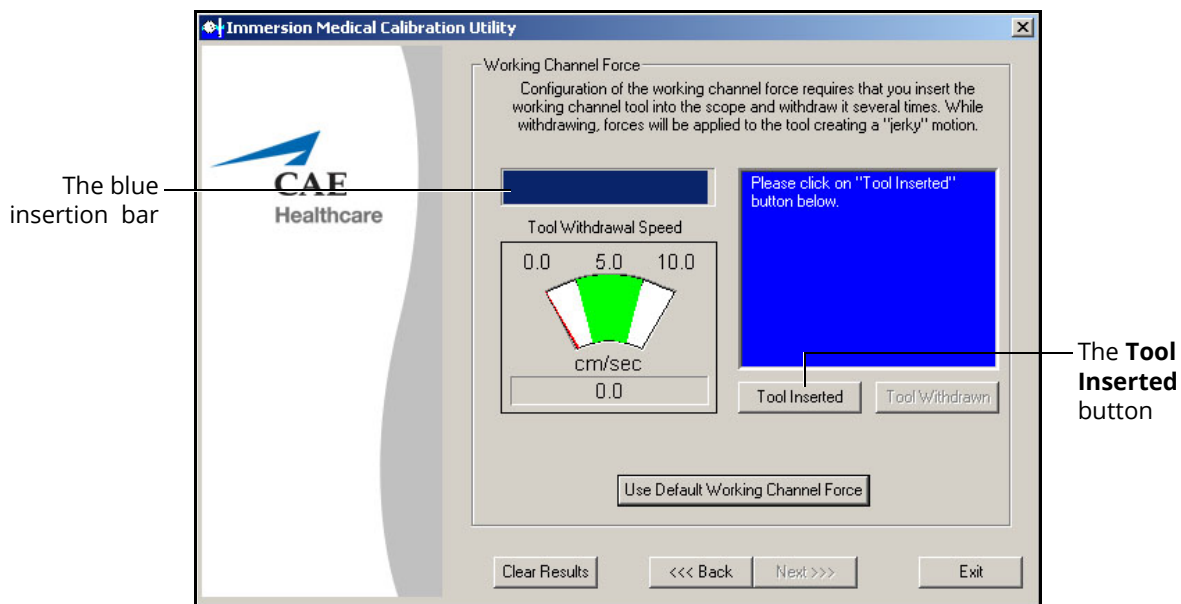
11. Turn the right/left wheel counterclockwise on the scope as far as it will go and hold the wheel in this position
12. On the Scope Right/Left Flexion window, click the top >>> button
The blue bar moves to the left and the calibration is complete when the word Done appears next the >>> button.
13. Turn the right/left wheel clockwise on the scope as far as it will go and hold the wheel in this position and click the bottom >>> button
The blue bar moves to the right and the calibration is complete when the word Done appears next the >>> button.
14. Click **Next**

Note: The Tool Level Range window appears only if the ERCP module calibration is selected.



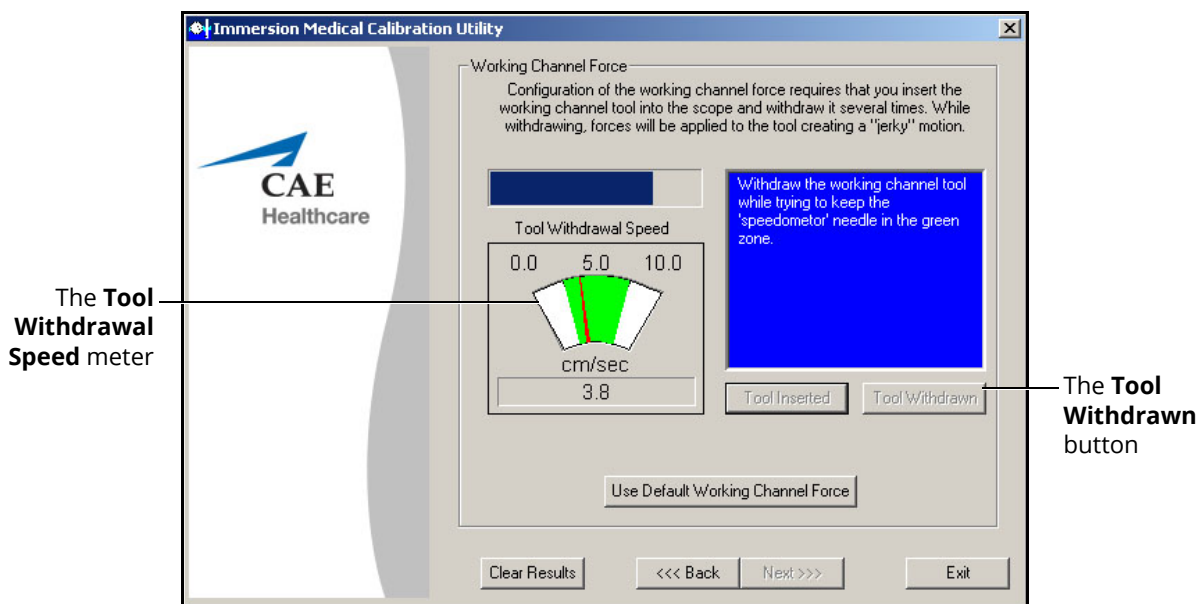
The Tool Lever Range Window

15. Push the elevator lever down on the scope as far as it will go and hold the lever in this position
16. On the Tool Lever Range window, click the top >>> button
The blue bar moves to the left and the calibration is complete when the word Done appears next the >>> button.
17. Push the elevator lever up on the scope as far as it will go and hold the lever in this position
18. On the Tool Lever Range window, click the bottom >>> button
The blue bar moves to the right and the calibration is complete when the word Done appears next the >>> button.
19. Click **Next**



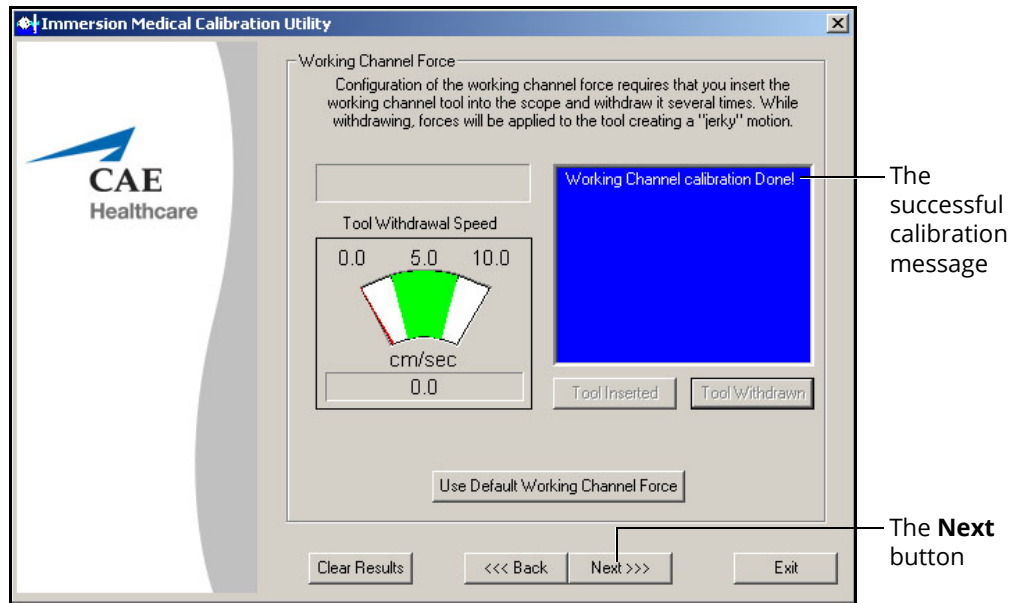
The Working Channel Force Window

20. Insert the accessory tool filament into the working channel on the scope head until the blue insertion bar on the Working Channel Force window is completely full
21. Click the **Tool Inserted** button
22. Withdraw the accessory tool filament slowly and focus on keeping the red needle in the Tool Withdrawal Speed area in the green range
23. When the tool is withdrawn, click the **Tool Withdrawn** button



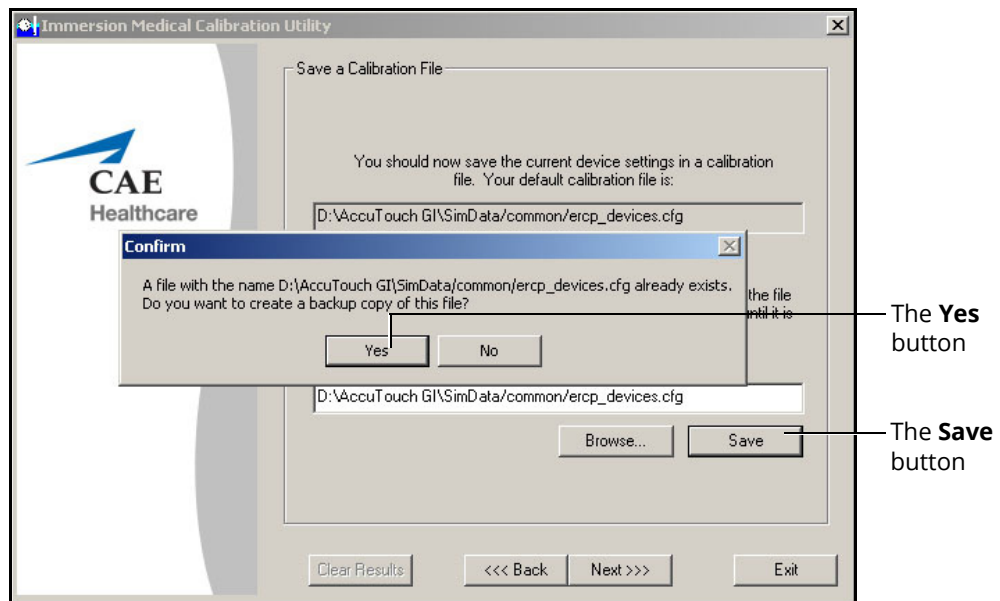
The Working Channel Force Window

24. Repeat steps 14 and 15 for calibration three times. When the calibration is successful, a message will appear in the blue square message box: *Working Channel Calibration Done!*



The Working Channel Force Window

25. Click **Next**
26. Click **Save** to save the calibration settings



The Save a Calibration File and Confirmation Message

27. Click **Yes**

Modifying Language Preferences

Administrators can change the language settings for their personal account using the language preferences menu in the top right corner of the Home screen or from the Configuration screen.

To modify the language preferences from the Home screen:

1. Click the **Language Preferences** menu

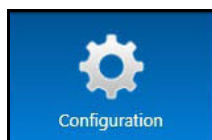


The Home Screen

2. Select the preferred language from the drop-down menu
A checkmark appears next to the selected language and the language is applied to the software.

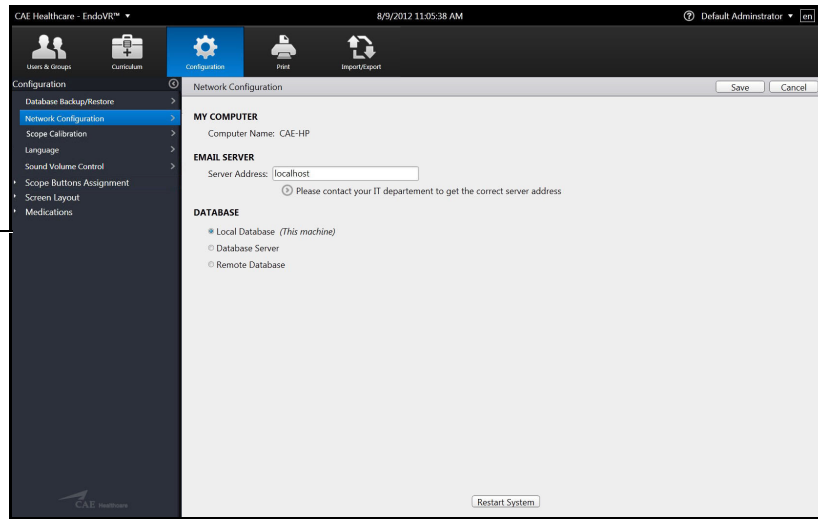
To modify the language preferences from the Configuration screen:

1. From the icon dashboard, click the **Configuration** icon



The Configuration Icon

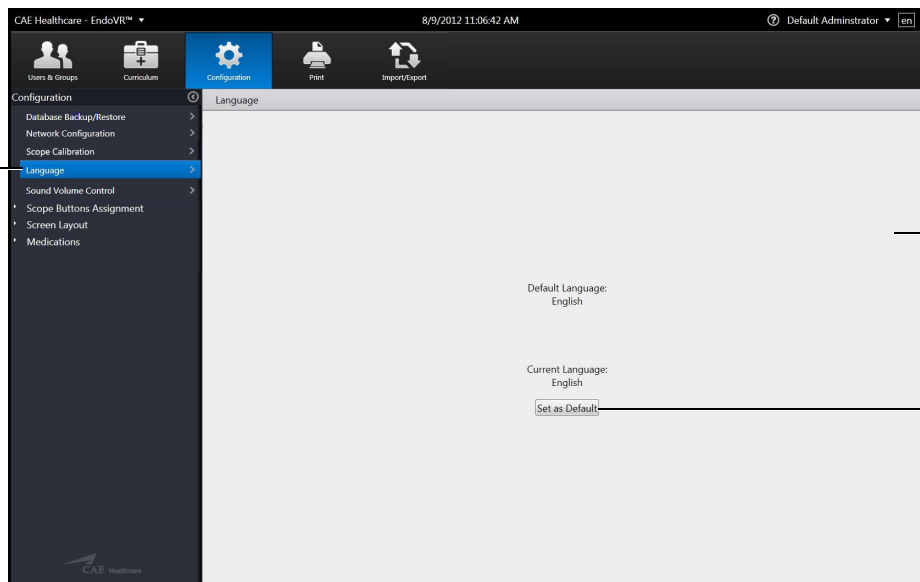
The Configuration panel



The Configuration Screen

2. Click the **Language** option in the **Configuration** panel

The Language option



The Language Preferences screen

The Set as Default button

The Language Preferences Screen

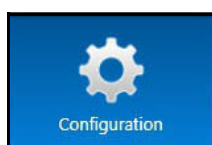
Note: Since English is currently the only available language, no other options are available to set as default.

Adjusting the Volume Controls

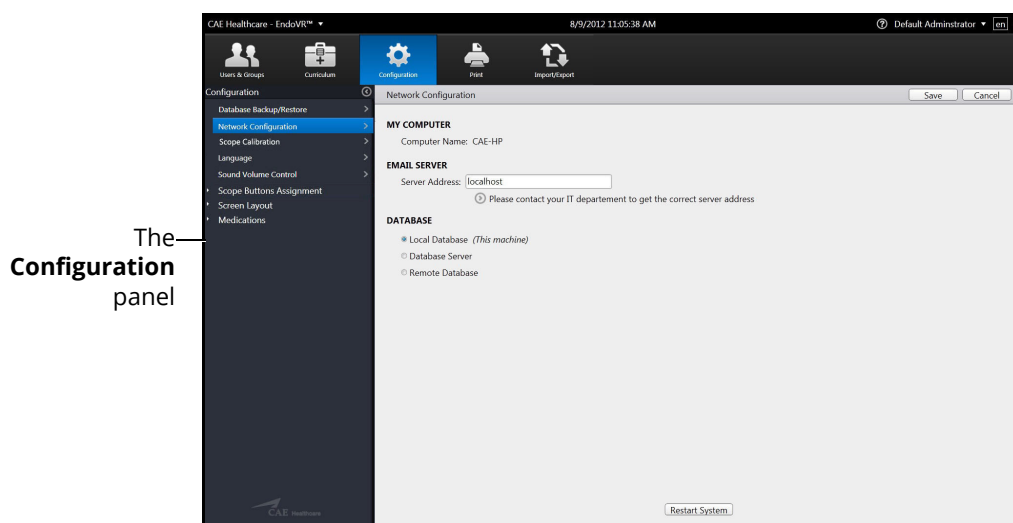
Administrators can configure the sound and volume hotkeys from the Configuration screen.

To adjust the volume controls:

1. From the icon dashboard, click the **Configuration** icon

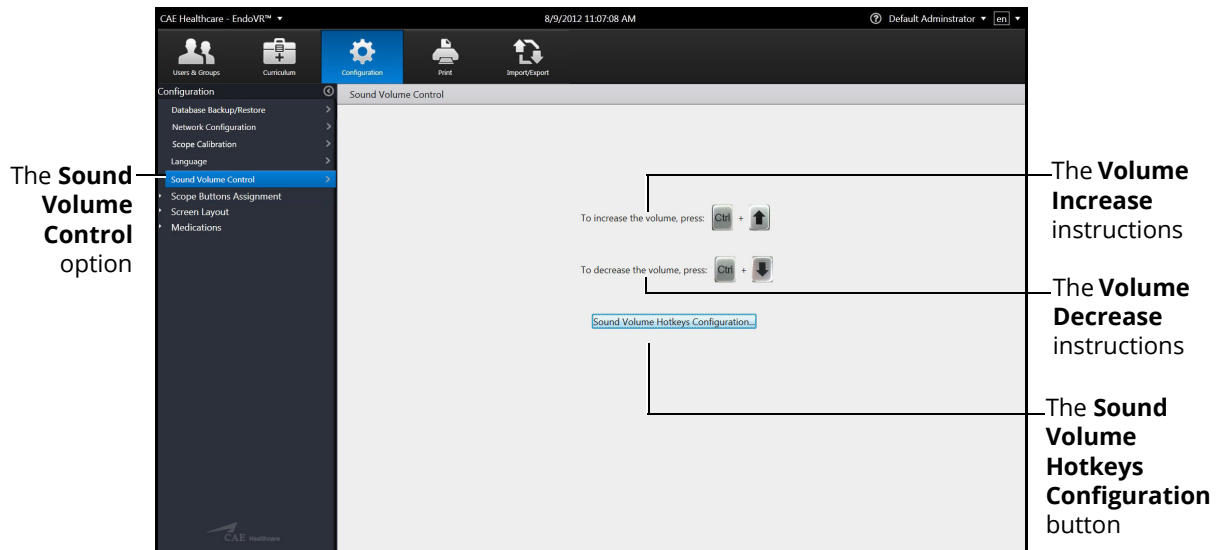


The Configuration Icon



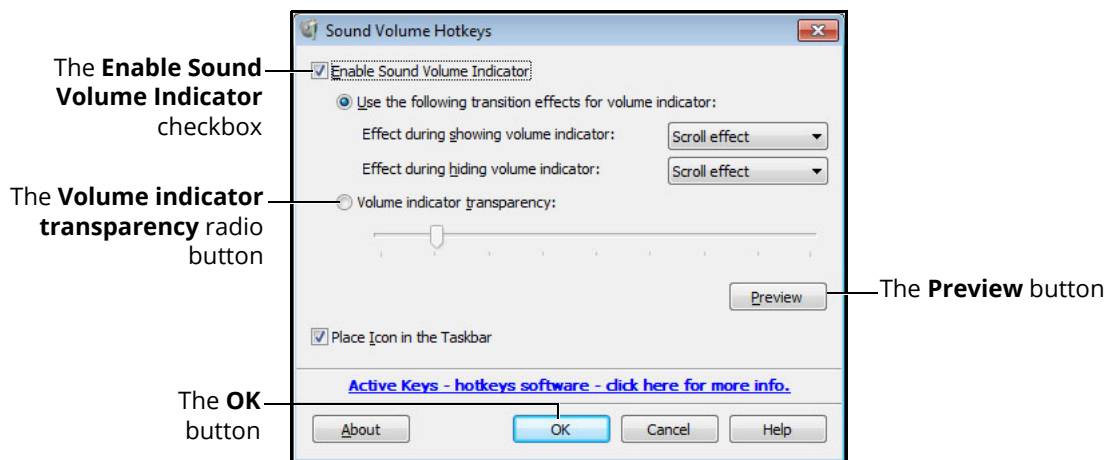
The Configuration Screen

2. From the Configuration screen, select the **Sound Volume Control** option in the **Configuration** panel



The Sound Volume Control Screen

3. Click the **Sound Volume Hotkeys Configuration** button



The Sound Volume Hotkeys Window

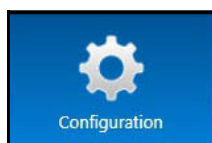
4. Select the **Enable Sound Volume Indicator** (selected by default) to display the volume increase/decrease slider when the hotkeys are used
5. Select the **Volume indicator transparency** radio button
6. Use the slider to adjust the transparency of the volume indicator when it appears on the screen
7. Click the **Preview** button to see how the volume indicator will display with the adjusted settings
8. Click **OK** to return to the Sound Volume Control screen

Modifying the Scope Button Assignments

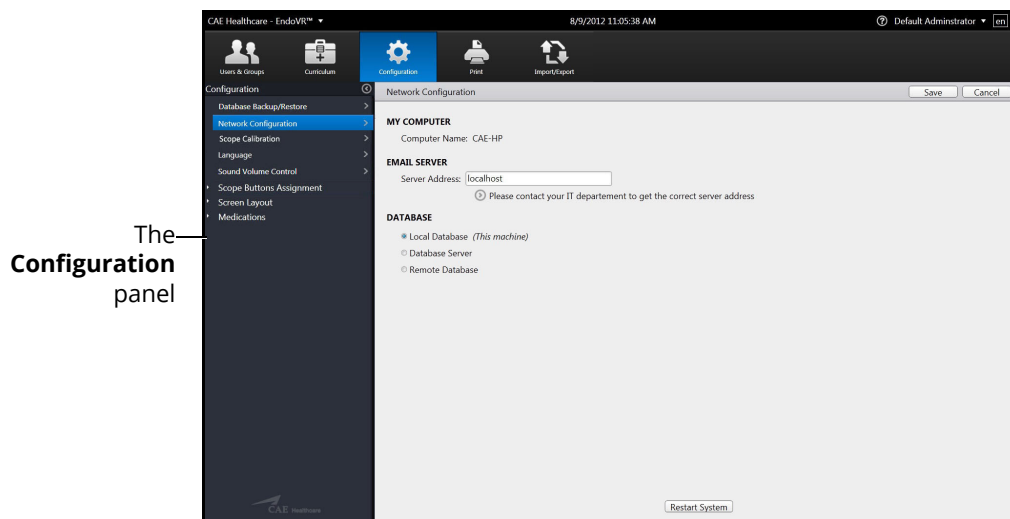
Administrators have the ability to change the scope button assignments for the EBUS-TBNA module procedures, if desired. The top and left side buttons are assigned to Freeze and Save Image functions respectively on the bronchoscopic scope heads by default. The two small buttons located on the right side of the scope are unassigned by default.

To modify the scope button assignments:

1. From the icon dashboard, click the **Configuration** icon



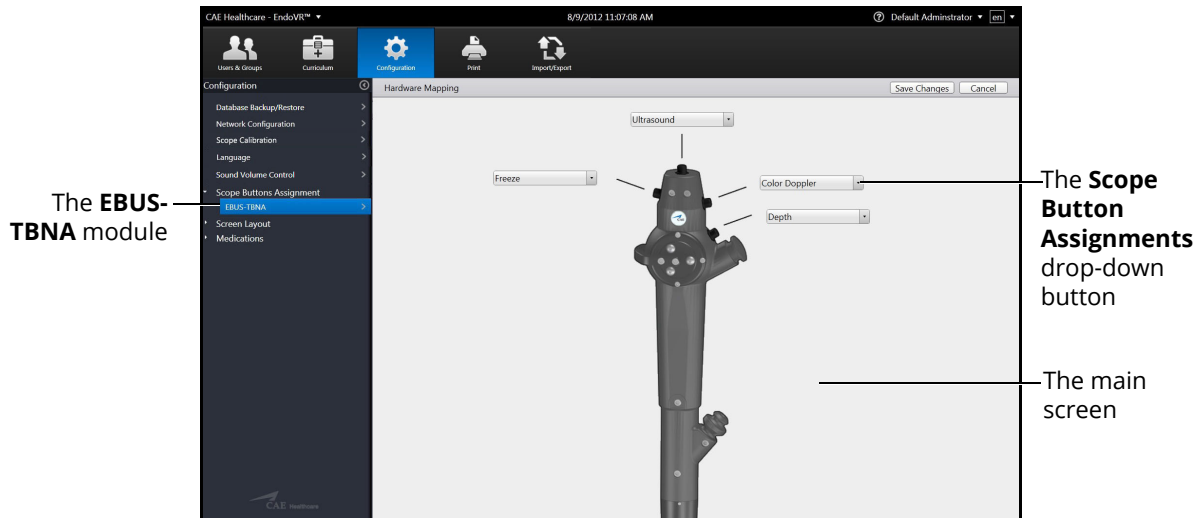
The Configuration Icon



The Configuration Screen

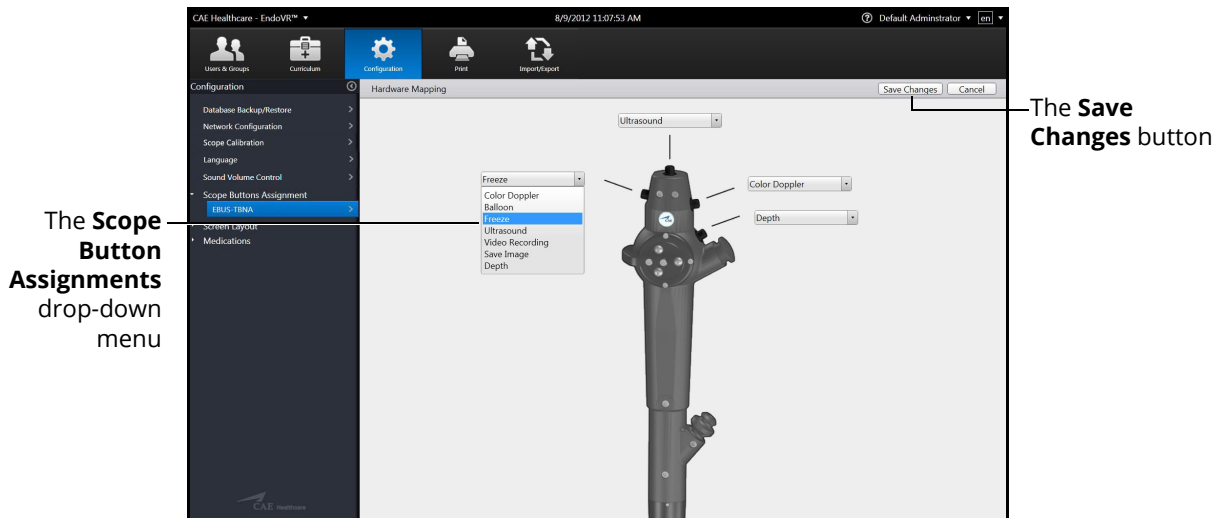
2. From the Configuration screen, select **Scope Button Assignment** in the **Configuration** panel

The EBUS-TBNA module is automatically selected and the button assignments options appear in the main screen.



The Scope Button Assignment Screen

3. Click the **Scope Button Assignments** drop-down button



The Scope Button Assignment Screen

4. Select an option from the **Scope Button Assignments** drop-down menu

The available options include:

- Freeze
- Balloon (to inflate or deflate the EBUS-TBNA needle balloon)
- Ultrasound
- Video Recording
- Save Image
- Depth

5. Click **Save Changes** to save the information and update the settings

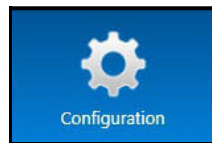
Modifying the Screen Layout

Administrators have the privilege to change the screen layout assignments for the EBUS-TBNA module procedures, if desired. The following screen layout assignments are set by default when the learner opens starts the EBUS-TBNA simulation:

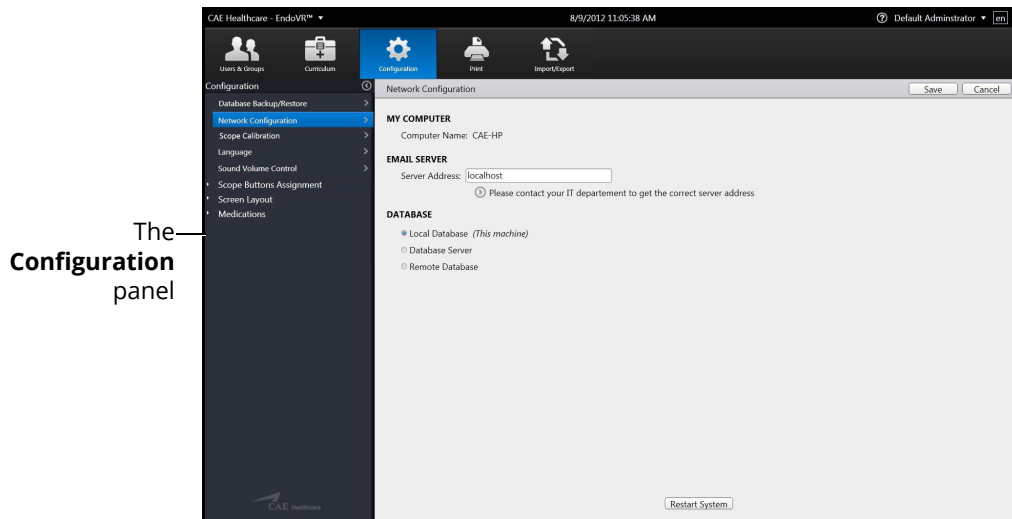
- Panel 1: Ultrasound
- Panel 2: Endoscopic View
- Panel 3: CT Viewer
- Panel 4: External View
- Panel 5: Tips
- Panel 6: Vital Signs

To modify the screen layout assignments:

1. From the icon dashboard, click the **Configuration** icon



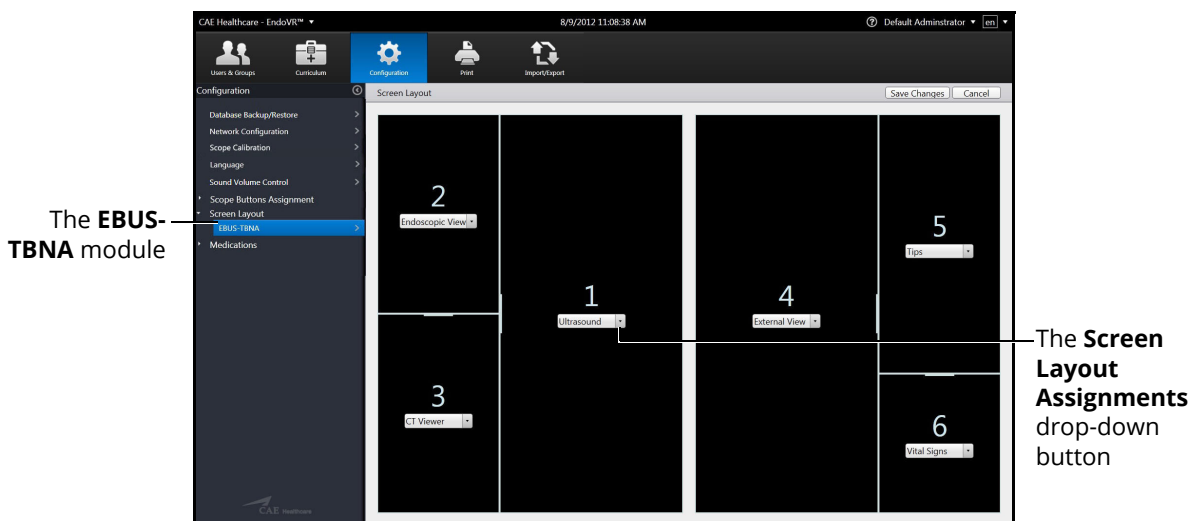
The Configuration Icon



The Configuration Screen

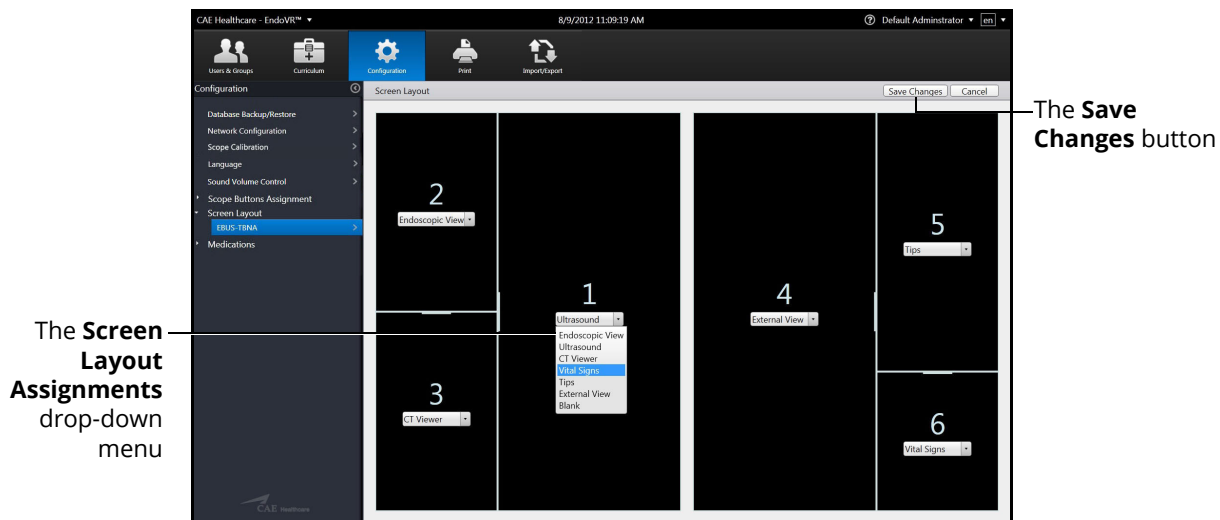
2. From the Configuration screen, select **Screen Layout** in the **Configuration** panel

The EBUS-TBNA module is automatically selected and the Screen Layout Assignment screen appears.



The Screen Layout Assignment Screen

3. Click the **Assignments** drop-down button



The Scope Button Assignment Screen

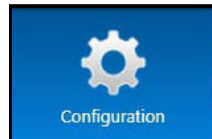
4. Select an option from the **Screen Layout Assignments** drop-down menu
5. Click **Save Changes** to save the information and update the settings

Modifying the Medication Settings

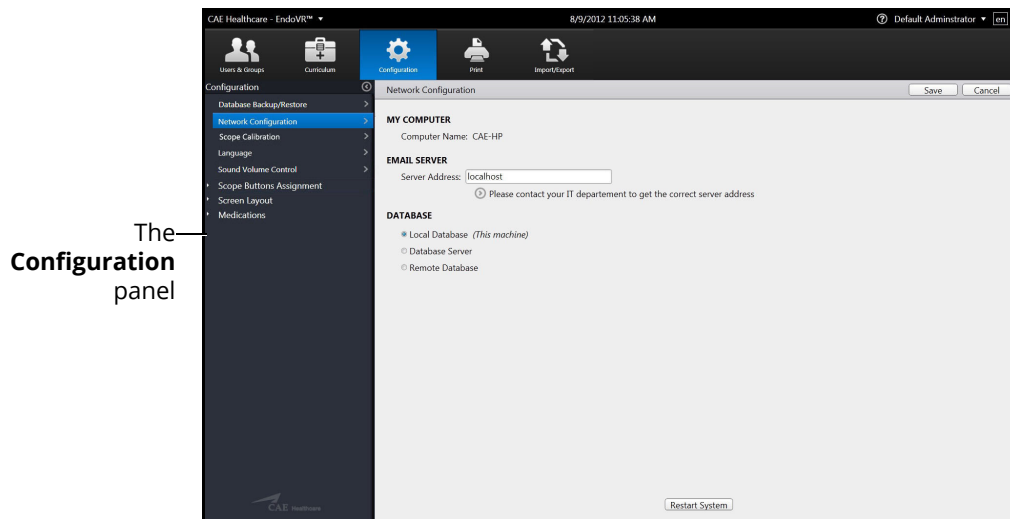
Administrators have the ability to control the medications that are available for learners to utilize during EBUS-TBNA and UGI Bleeding modules.

To modify the medication settings for the EBUS-TBNA module:

1. From the icon dashboard, click the **Configuration** icon

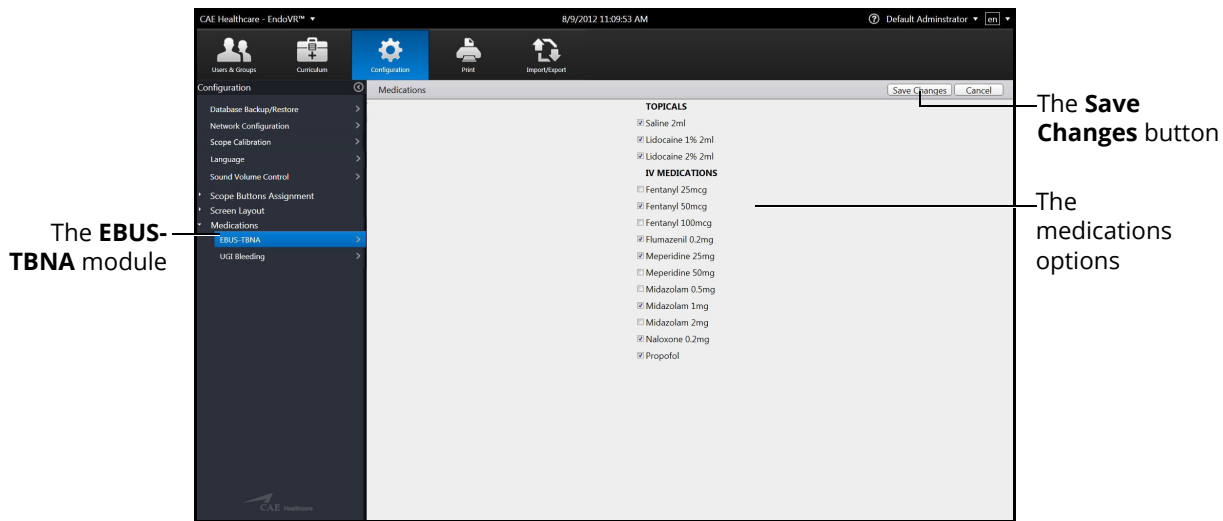


The Configuration Icon



The Configuration Screen

2. From the Configuration screen, select **Medications** in the **Configuration** panel and select the **EBUS-TBNA** module

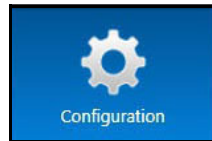


The EBUS-TBNA Medications Options Screen

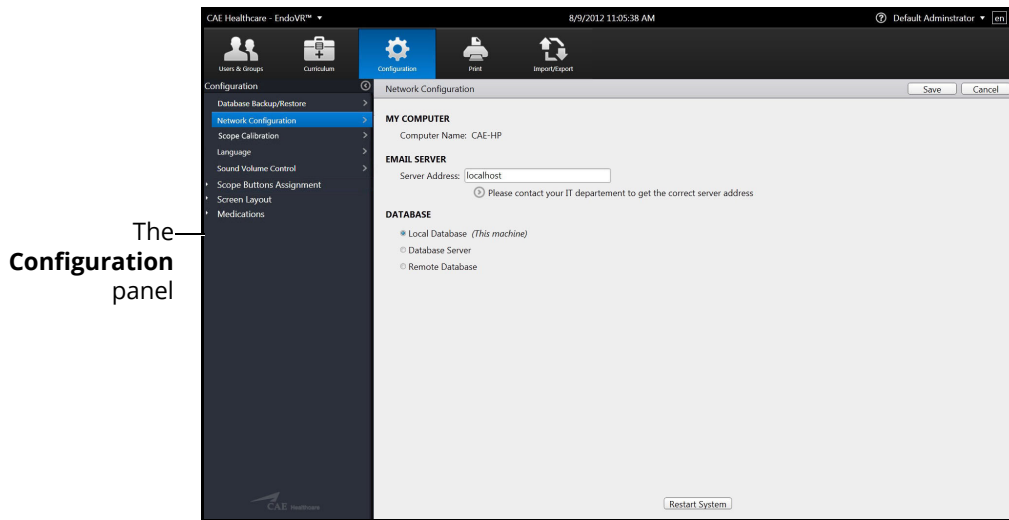
3. Select the checkbox next to the medications that should be made available to learners during the EBUS-TBNA simulations
4. Click **Save Changes** to save the information and update the settings

To modify the medication settings for the UGI Bleeding module:

1. From the icon dashboard, click the **Configuration** icon



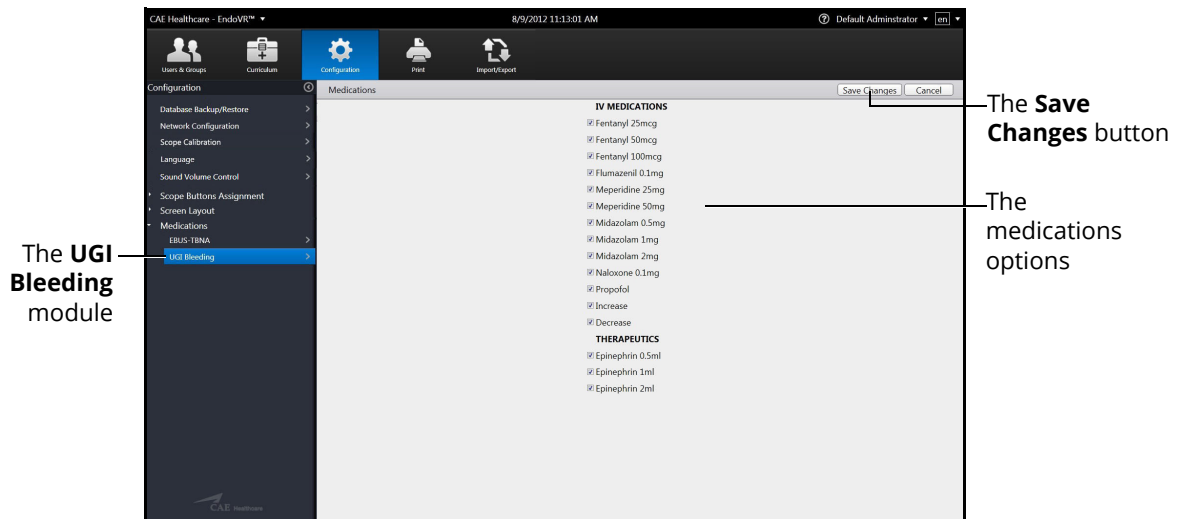
The Configuration Icon



The Configuration panel

The Configuration Screen

2. From the Configuration screen, select **Medications** in the **Configuration** panel and select the **UGI Bleeding** module



The UGI Bleeding module

The Save Changes button

The medications options

The UGI Bleeding Medications Options Screen

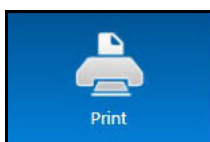
3. Select the checkbox next to the medications that should be made available to learners during the UGI Bleeding simulations
4. Click **Save Changes** to save the information and update the settings

Printing Data

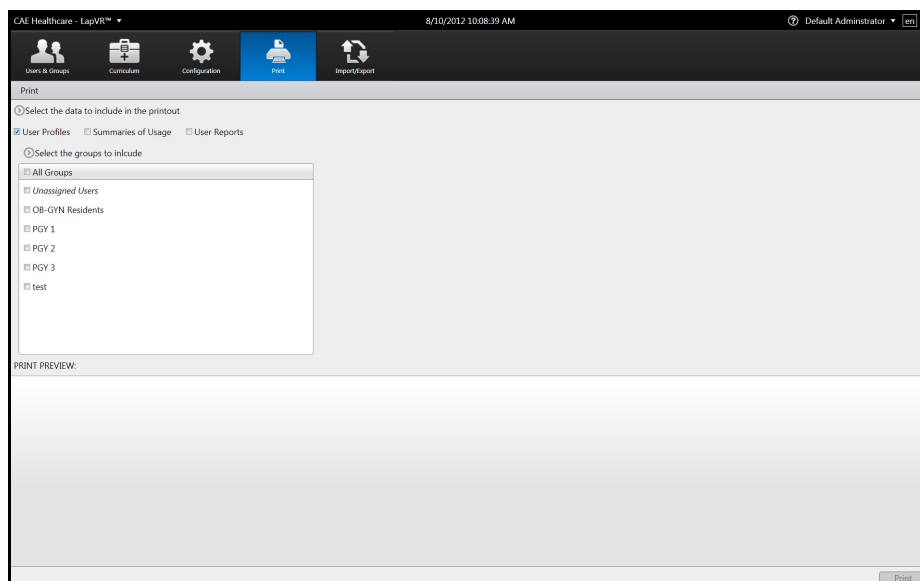
From the Print screen, administrators can print customized data including user profiles, usage summaries and reports.

To create a print preview:

1. From the icon dashboard, click the **Print** icon

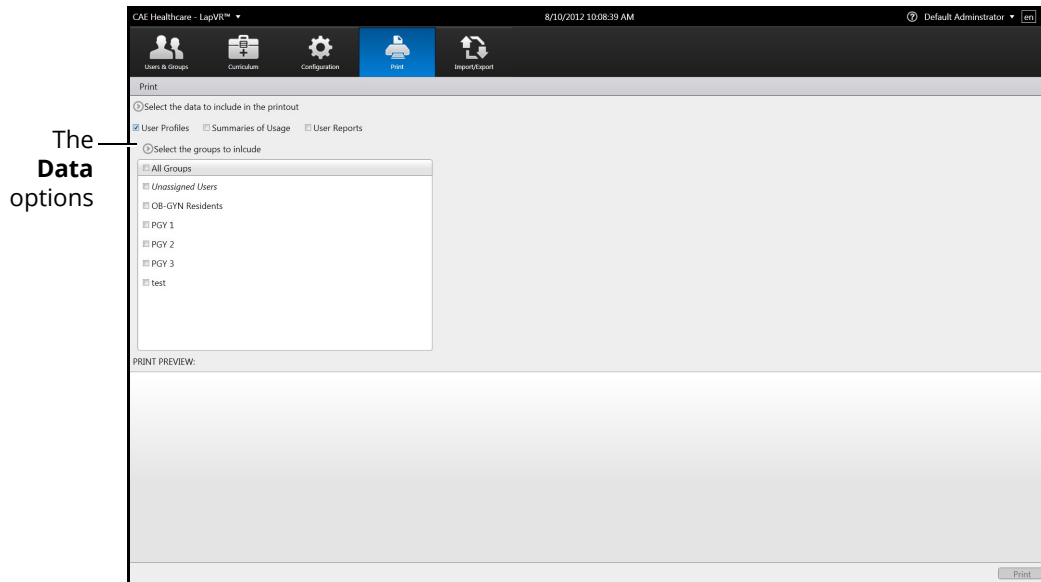


The Print Icon



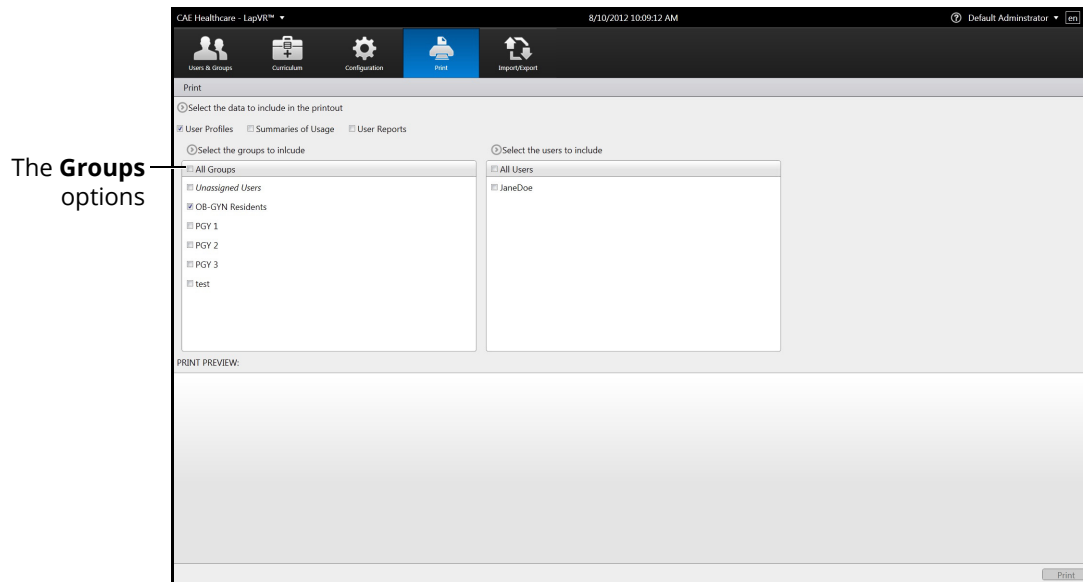
The Print Screen

- From the **Data** options, select the desired data to include in the printout



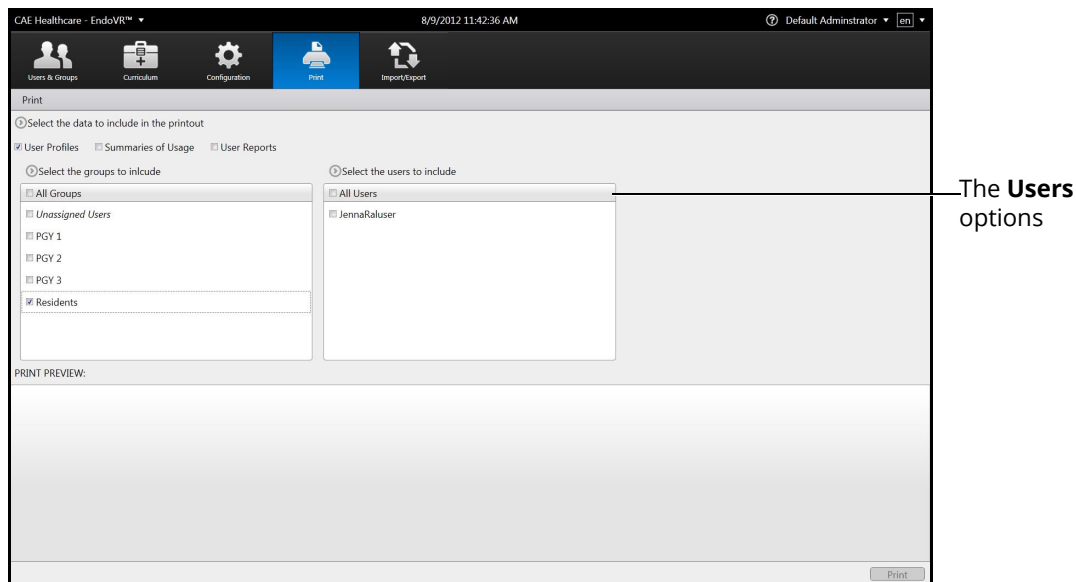
The Print Screen

- From the **Groups** options, select the desired groups to include in the print preview or select **All Groups**



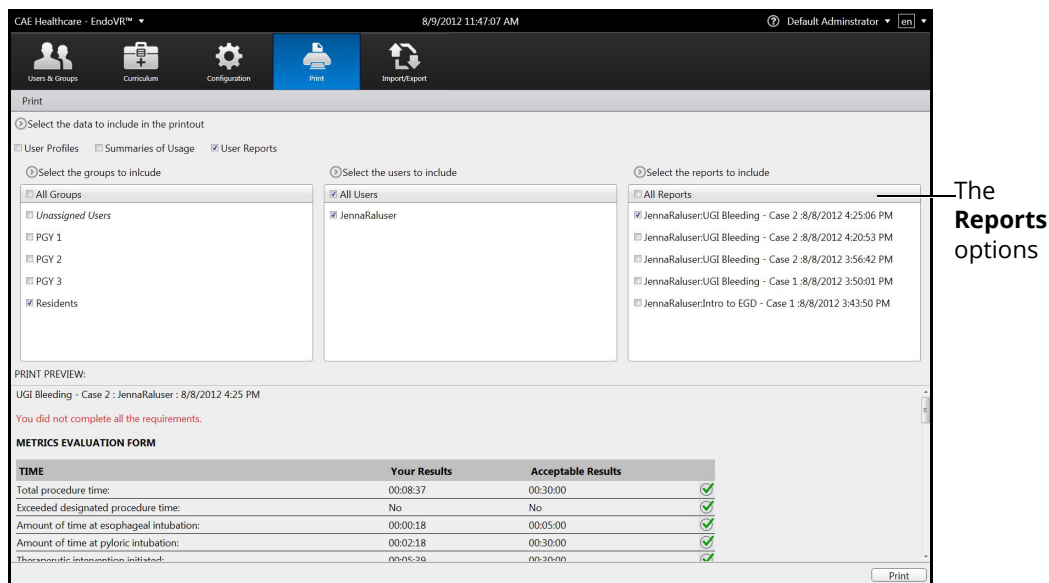
The Print Screen

- From the **Users** options, select the desired users to include in the print preview or select **All Users**

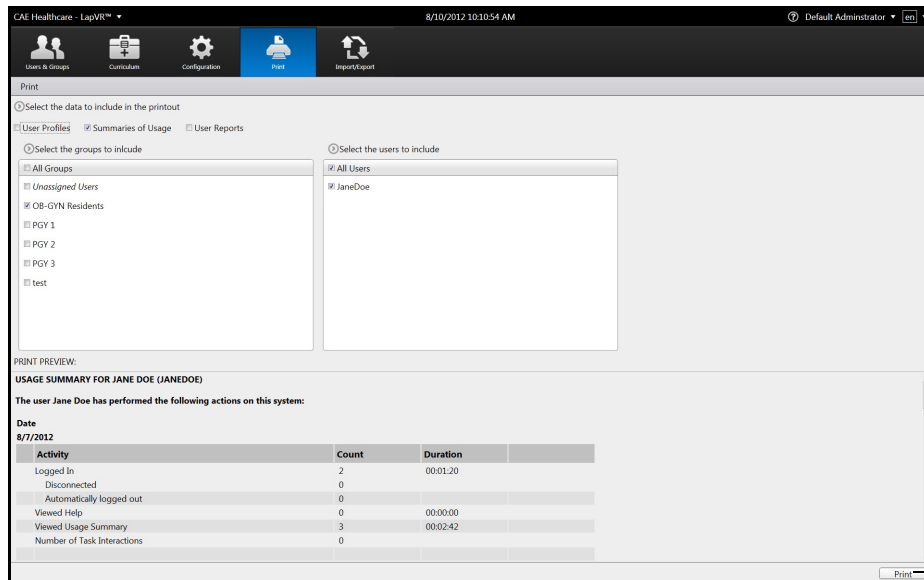


The Print Screen

Note: If the User Reports data was selected, the **User Reports** options appear. From the **User Reports** options, select the desired user reports to include in the print preview or select **All User Reports**.



The Print Screen



The Print Screen

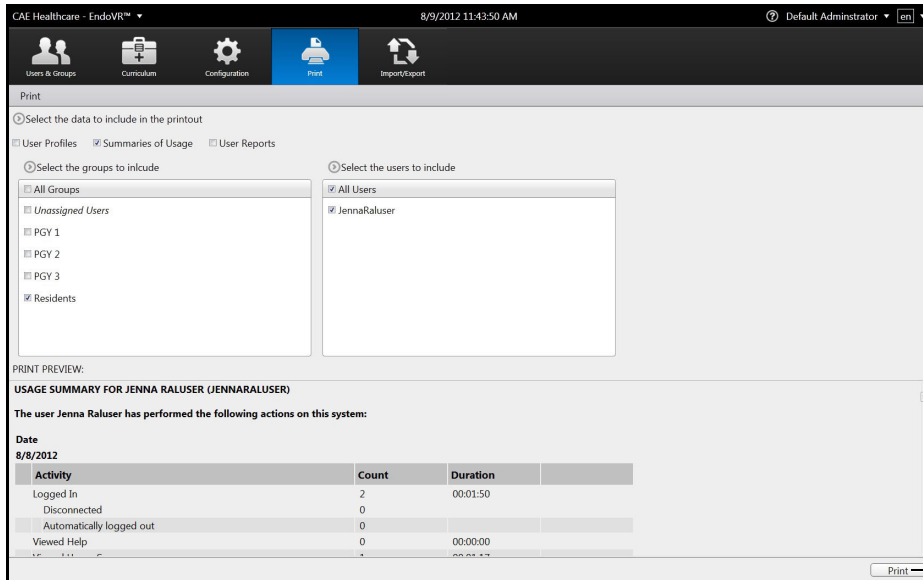
Note: A network connection is required for printing documents from the simulator to a printer. To add a printer to the network, exit the software and consult your Windows Help menu.

Printing Data to a PDF File

If network connection is not available or no printers are available on the network, administrators can print data to a PDF file and save the file to an external device to print on a computer with a network printer connection.

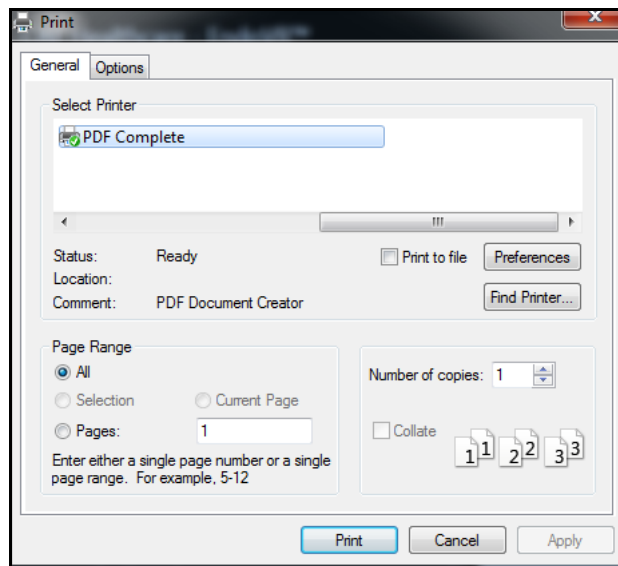
To print data to a PDF file:

1. From the Print screen, click **Print**



The **Print** button

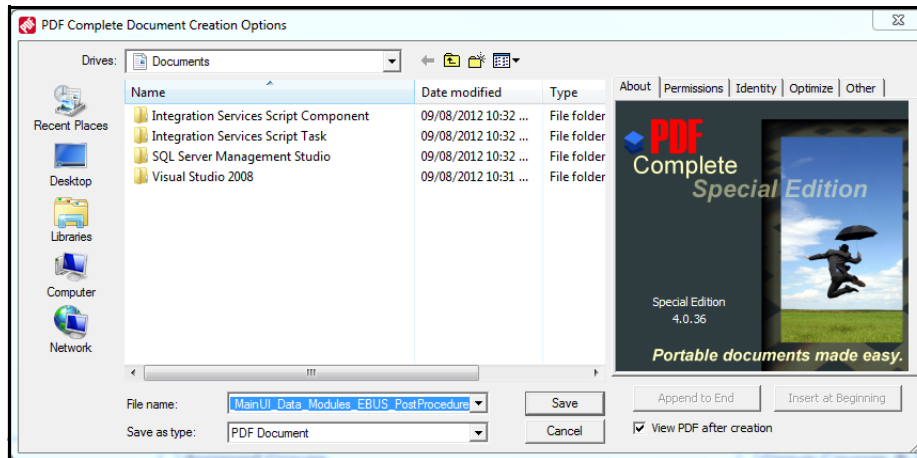
The Print Screen



The Print Window

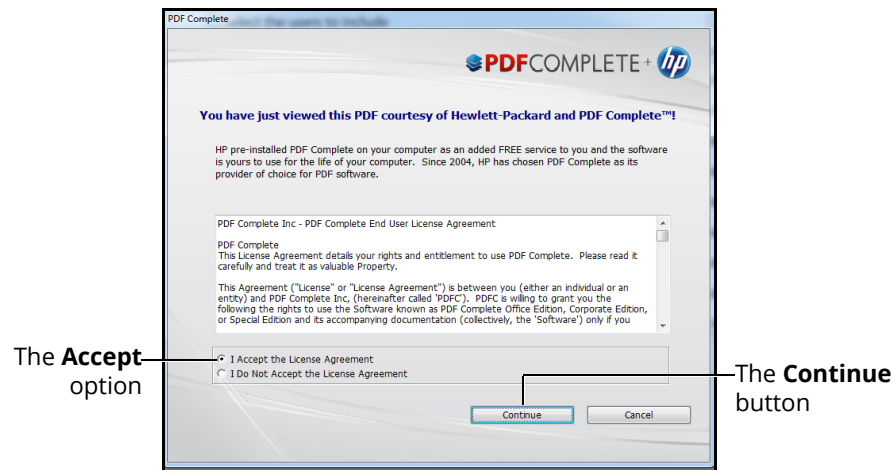
2. Select the **PDF Complete** program

3. Click **Print**. The PDF window appears



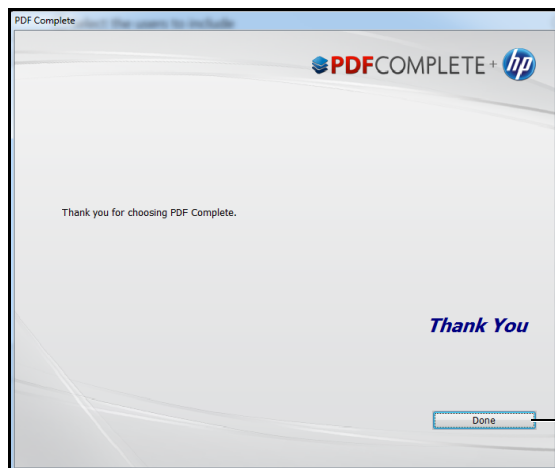
The PDF Complete Document Creation Options Window

4. Select the desired folder where the file will be saved
Note: If the location is on an external device, use the USB port located on the back of the simulator to connect the external device to the simulator.
5. Enter the desired file name in the **File name** field and click **Save**



The PDF Complete Window

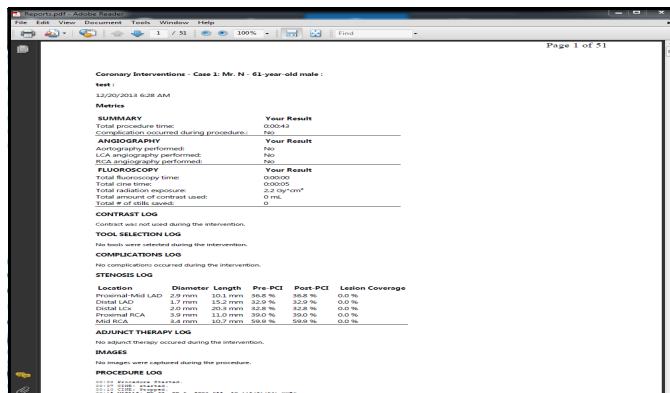
6. Select the acceptance option
7. Click the **Continue** button



The **Done** button

The PDF Complete Window

8. Click **Done**

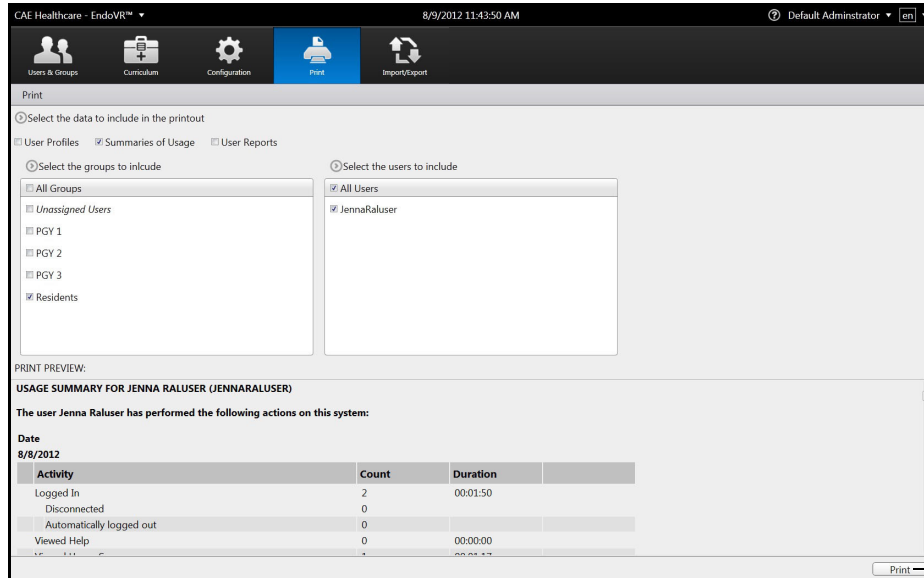


The Adobe Reader Window

Printing Data to a Network Printer

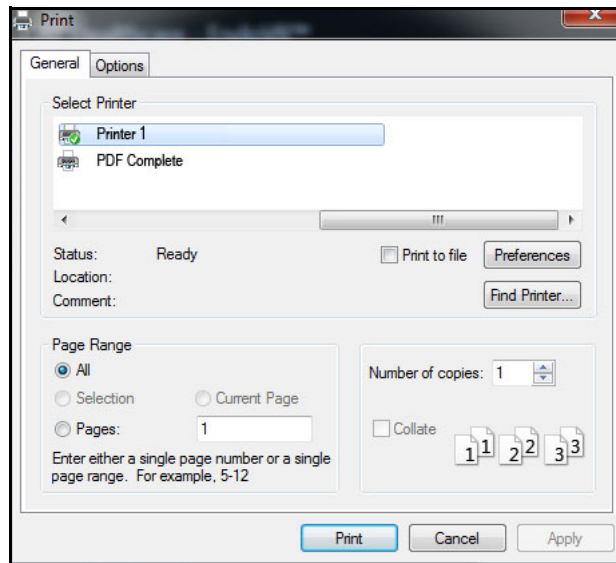
To print data to a network printer:

1. From the Print screen, click the **Print** button



The **Print** button

The Print Screen



The Print Window

2. Select the desired network printer
3. Click **Print**

Importing Users

Using the import function, administrators can add data for multiple users in one process.

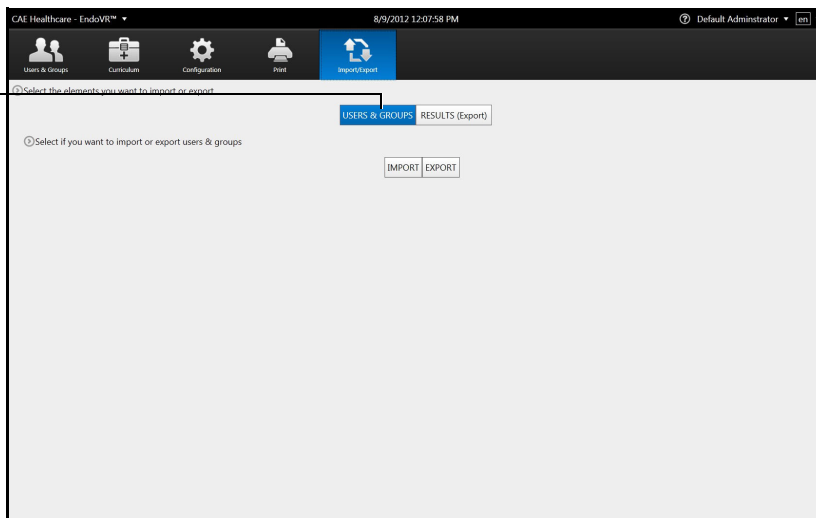
To import users:

1. From the icon dashboard, click the **Import/Export** icon



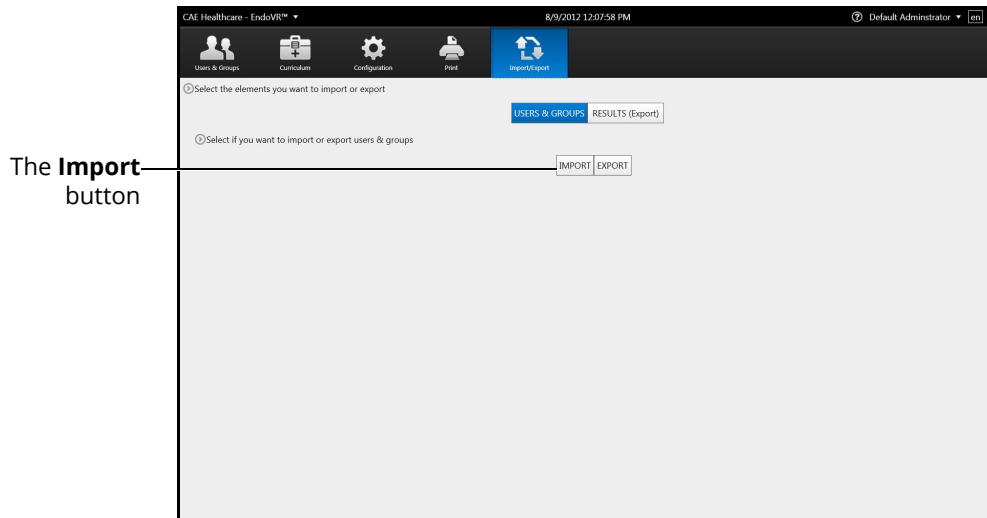
The Import/Export Icon

The **Users & Groups** button



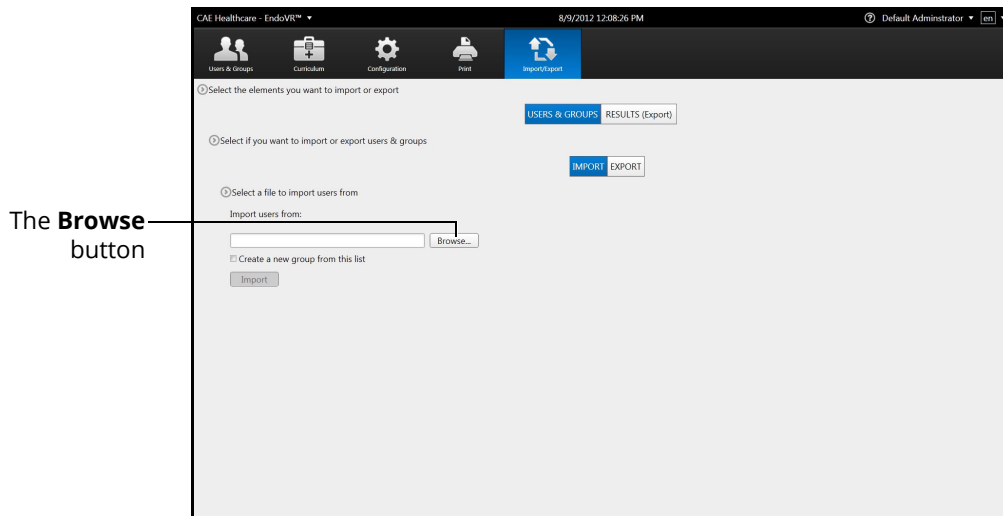
The Import/Export Users Screen

2. From the Import/Export screen, click **Users & Groups**



The Import/Export Users Screen

3. Click **Import**



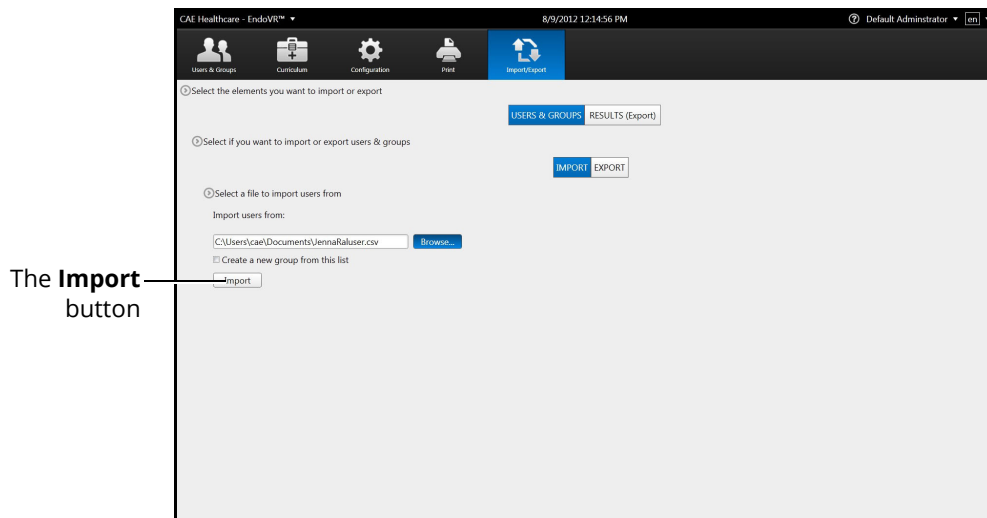
The File Selection Tools

4. Click **Browse**

5. Select the comma delineated (CSV) file to import

Note: If the file is located on an external device, use the USB port located on the back of the simulator to connect the external device to the simulator.

6. Click **Open**



The Selected Import File

7. Select **Create a new group from this list** to create new group from the file, if desired
8. Click **Import**



The Import Success Message

9. Click **OK**

Exporting Users and Groups

Administrators can export data to an external device for evaluation and record purposes. Data for individual users or groups can be customized and exported into a comma delineated (CSV) spreadsheet file from the EndoVR simulator.

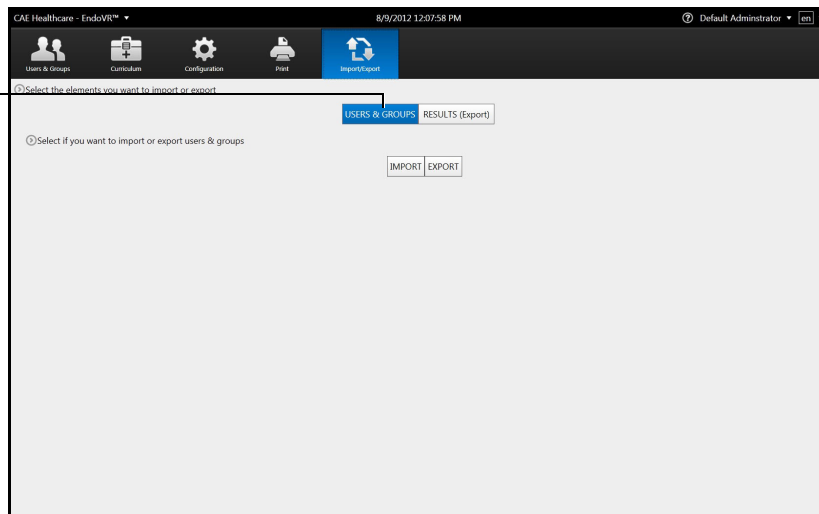
To export users and groups:

1. From the icon dashboard, click the **Import/Export** icon



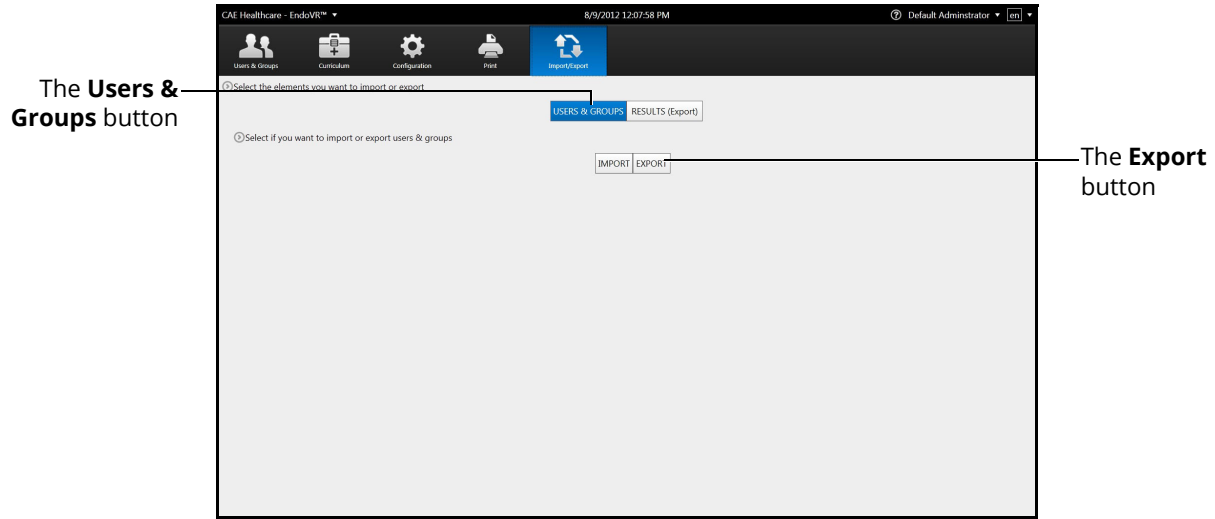
The Import/Export Icon

The **Users & Groups** button



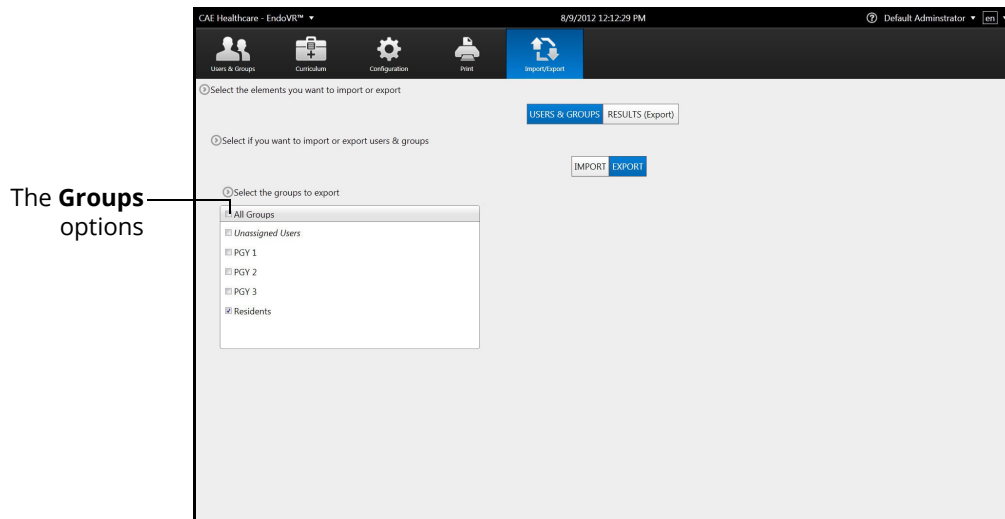
The Import/Export Screen

2. From the Import/Export screen, click **Users & Groups**



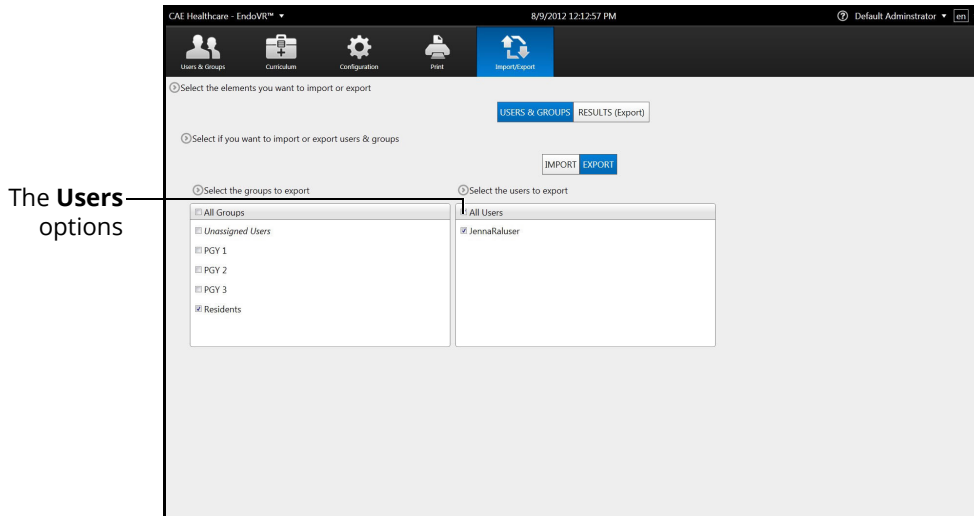
The Import/Export Users Screen

3. Click **Export**



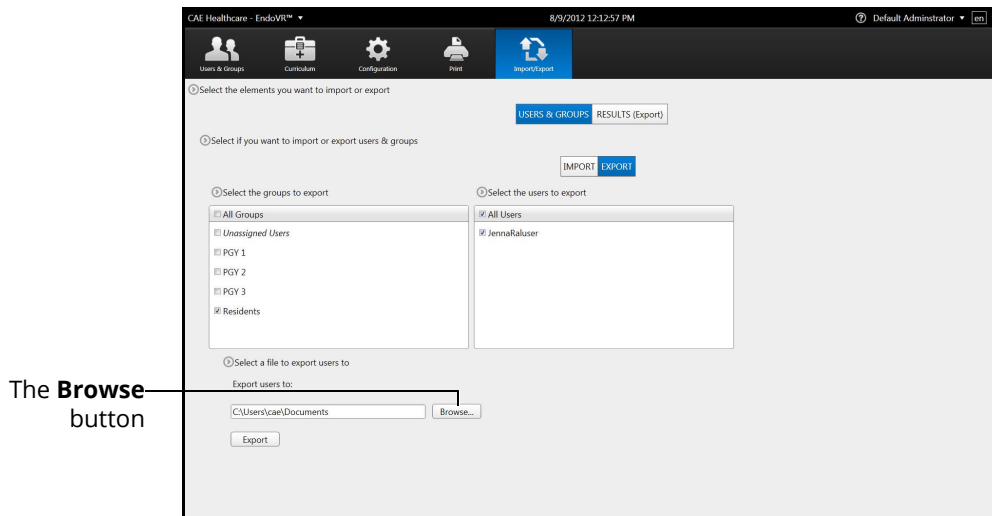
The User Export Screen

4. Select the group or **All Groups** from the **Groups** options



The Export Users Screen

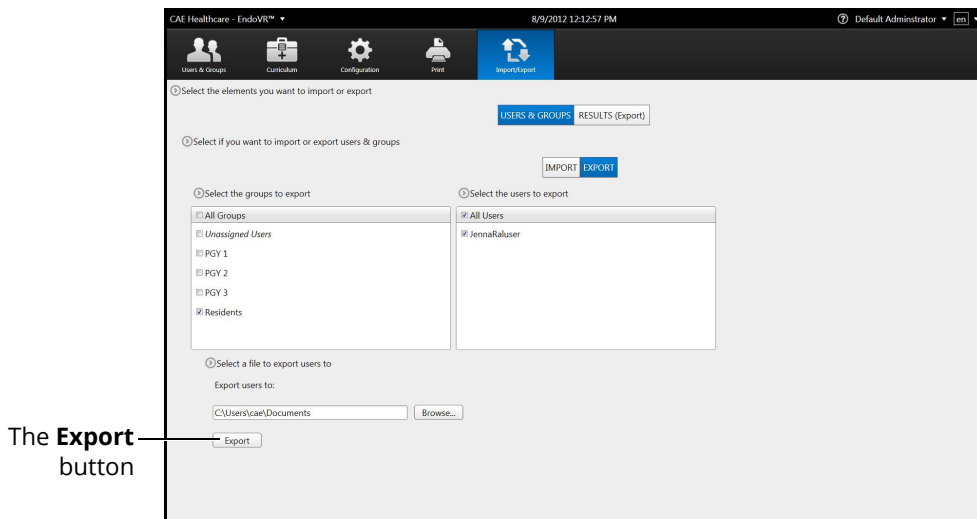
5. Select the user or **All Users** from the users options



The File Selection Tools

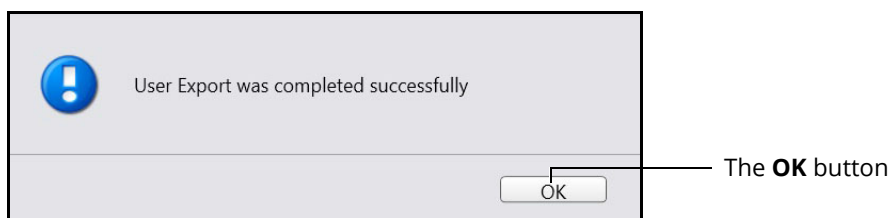
6. Click **Browse**
7. Select the location where the file will be saved when the exporting is complete
Note: If the location is on an external device, use the USB port located on the back of the simulator to connect the external device to the simulator.
8. Click **Open**

The file name appears in the **Export users to** field.



The Selected Export File

9. Click **Export**



The Export Success Message

10. Click **OK**

Exporting Results

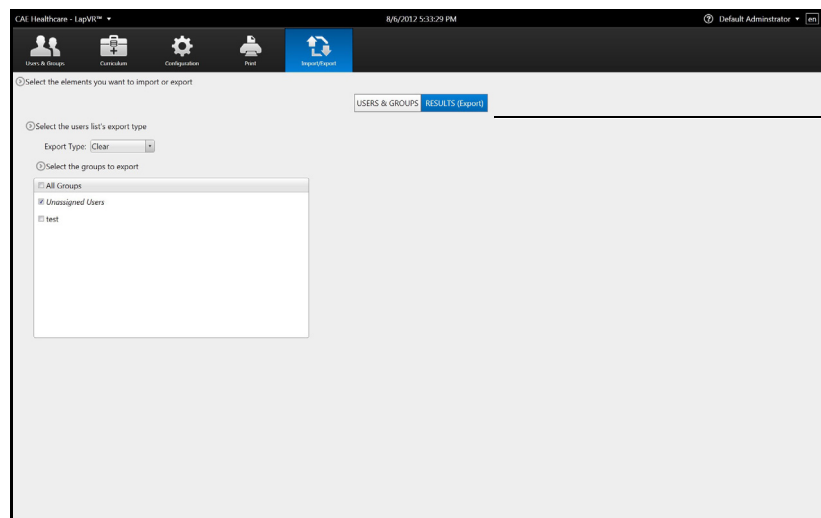
Administrators can export results to an external device for evaluation and record purposes. The data is exported into a comma delineated (CSV) spreadsheet file from the EndoVR simulator.

To export results:

1. From the icon dashboard, click the **Import/Export** icon



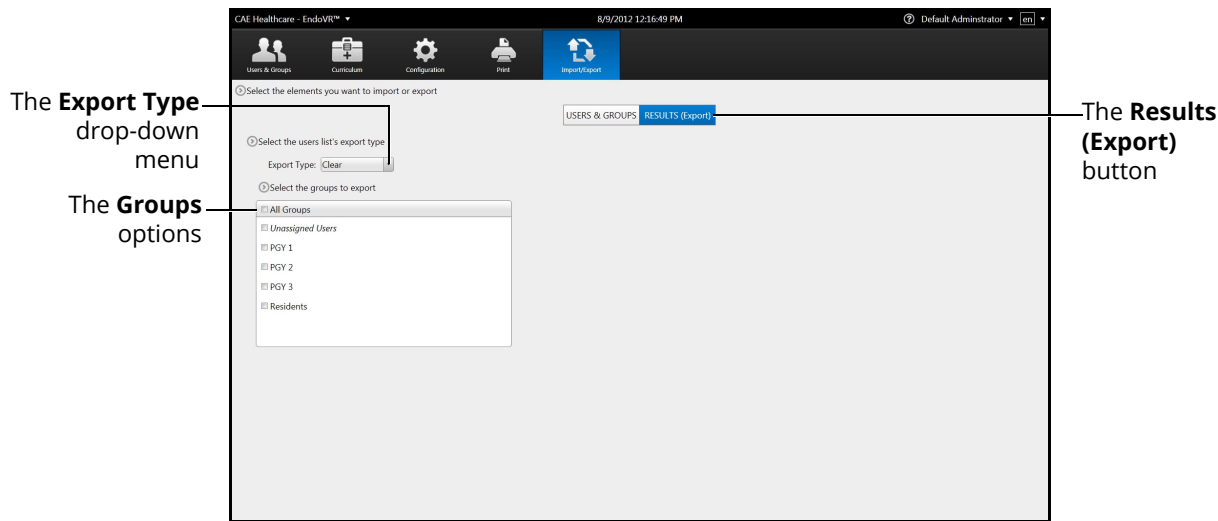
The Import/Export Icon



The **Results (Export)** button

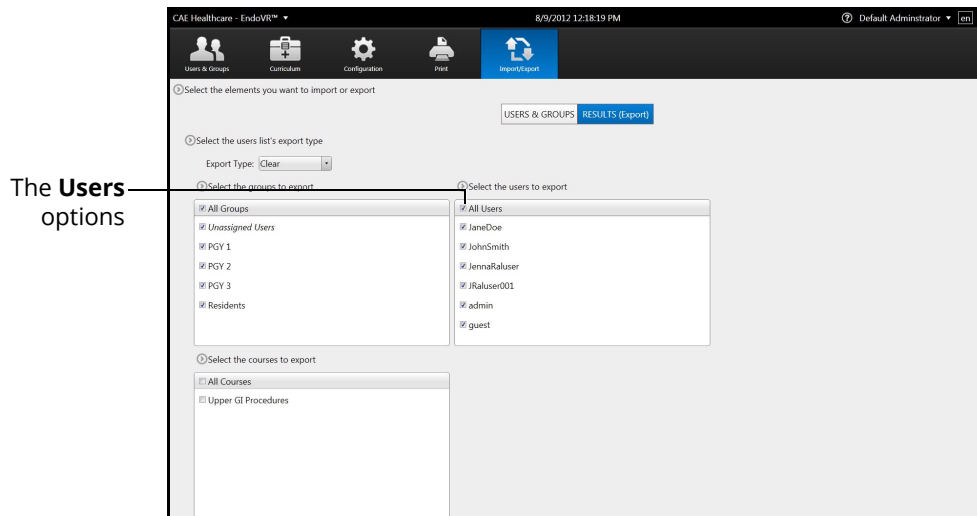
The Import/Export Screen

2. From the Import/Export screen, click **Results (Export)**



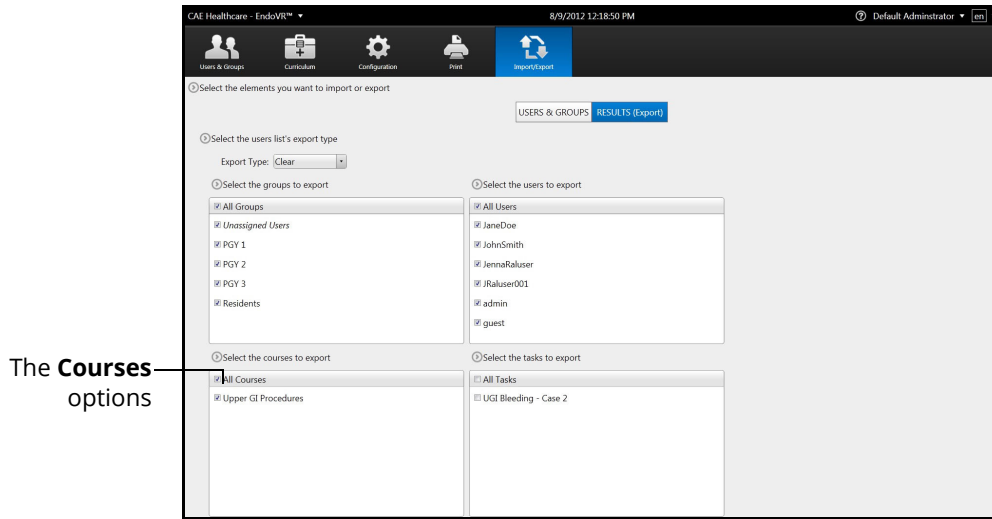
The Export Results Screen

3. Select the export type from the drop-down menu. Choose from **Clear** (default), **Anonymous** or **Double Blind**
4. Select the group or **All Groups** from the **Groups** options



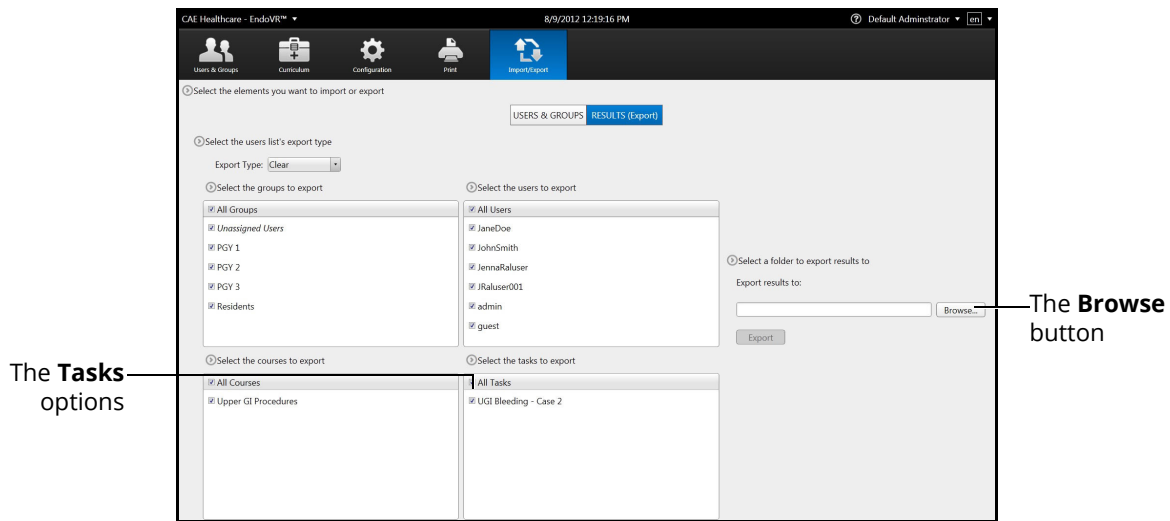
The Export Results Screen

5. Select a user or **All Users** from the **Users** options



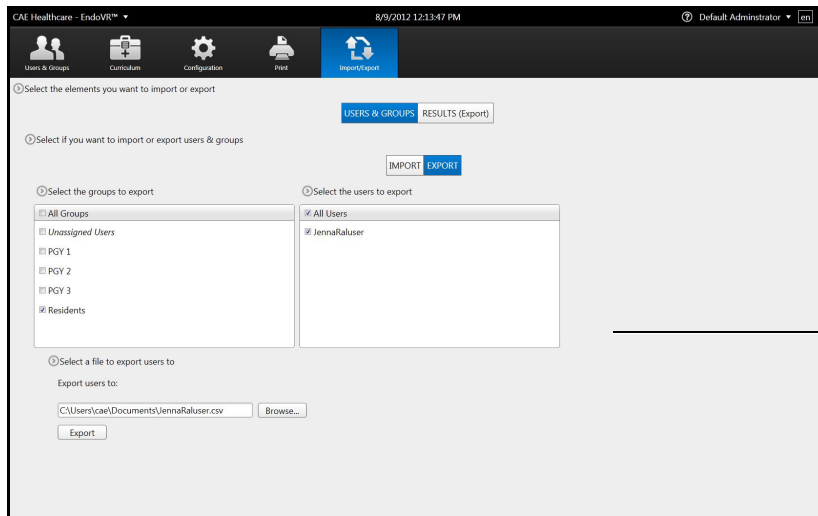
The Export Results Screen

6. Select a course or **All Courses** from the **Courses** options



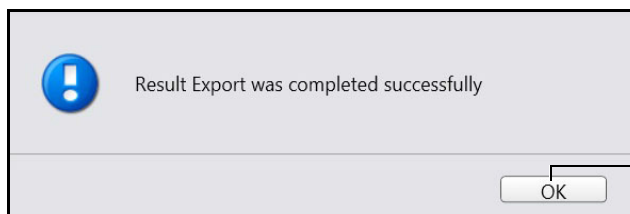
The Export Results Screen

7. Select a task or **All Tasks** from the **Tasks** options
8. Click **Browse**
9. Select the location where the file will be saved when the exporting is complete
Note: If the location is on an external device, use the USB port located on the back of the simulator to connect the external device to the simulator.
10. Click **Open**



The Selected File

11. Click **Export**

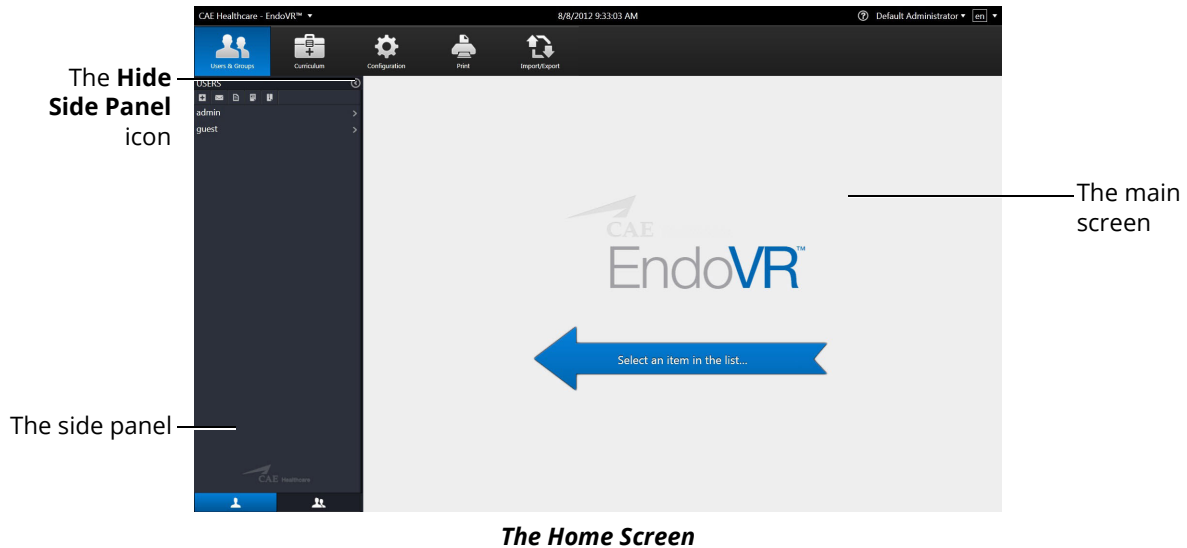


The Result Export Success Message

12. Click **OK**

Hiding the Side Panel

Administrators can hide the side panel to view content in full screen mode.



To hide the side panel:

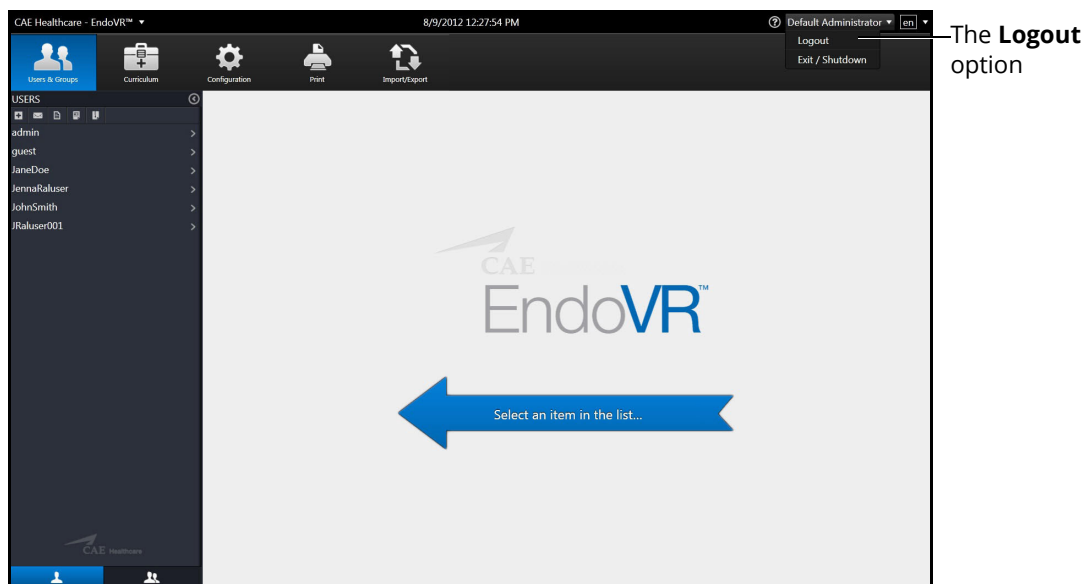
1. From the side panel, select the desired item
2. Click the **Hide Side Panel** arrow
3. The content expands to the width of the full main screen

Exiting the Software

Administrators should always log out of the software once they are finished using the software.

To exit the software:

1. From any screen, click on the username in the top right corner of the screen



The Home Screen with Logout Drop-Down Menu

2. Select **Logout** from the **Logout** drop-down menu



The Login Screen

The administrator is logged out of the software.

CAE Assurance Programs

General Information

CAE patient simulator products come with a one-year Assurance support and maintenance plan. All plans begin at the date of shipment or CAE installation. You may upgrade your first-year plan to an enhanced plan and receive remedial and planned maintenance. To prevent equipment downtime and delays after the plan expires, CAE encourages customers to purchase extended Assurance plans for all subsequent years.

Units Out of Plan

For units no longer under an Assurance plan that require repairs, the Time and Materials service plan applies. For more information, see *Time and Materials* section of this Care and Maintenance section.

To place an out-of-plan unit under a support and maintenance plan, CAE reserves the right to have the patient simulator inspected by a CAE-approved technician at the customer's expense. If necessary, the unit would have to be repaired at the customer's expense prior to issuance of a plan.

The repairs required as the result of the examination will be quoted on a time and material basis.

Plan Period

Assurance plans are not ordinarily offered for periods of less than one year. However, multiple-year plans may be arranged for up to an additional three years. Discounts are available for purchase of multiple-year plans.

Limitations of Plan

Your exclusive remedy for any defective patient simulators is limited to the repair or replacement of the defective patient simulator.

CAE may elect which remedy or combination of remedies to provide at its sole discretion. CAE shall have a reasonable time after determining that a defective material exists to repair or replace the identified defective material. CAE's replacement material will be manufactured from new and/or serviceable parts. CAE's Assurance plan applies to repaired or replaced materials for the balance of the applicable period of the original support and maintenance plan or ninety days from the date of shipment of a repaired or replaced material, whichever is longer. CAE warrants its labor for 30 days or the balance at the applicable period of the original support and maintenance plan, whichever is greater.

CAE shall not be liable under this Assurance plan for incidental or consequential damages, or in the event of any unauthorized repairs or modifications have been made or attempted, or when the product, or any part thereof, has been damaged by accident, misuse or abuse. This plan does not cover normal wear or tear, staining, discoloration or other cosmetic irregularities that do not impede or degrade product performance. Any damage or malfunction as a result of the installation of software or hardware, not authorized by CAE, will be repaired under the Time and Materials service plan (see *Time and Materials* section).

CAE's Assurance plans do not cover products that have been received improperly packaged, altered or physically damaged. Products will be inspected upon receipt.

Some states in the USA do not allow the exclusion or limitations of incidental or consequential damages, so the limitations above may not apply to you. The Assurance plan gives you specific legal rights and you may also have other rights, which vary from state to state.

Return Materials Authorization (RMA)

No product may be returned directly to CAE without first contacting CAE for an RMA number. If it is determined that the product may be defective, the customer will be given an RMA number and instructions for returning the product. An unauthorized return (e.g., one for which an RMA number has not been issued) will be returned at the customer's expense. Authorized shipments are to be shipped prepaid to the address on the RMA. The original box and packaging materials should be kept for storing or shipping your product. To request an RMA, please contact Customer Service.

Training for Life™

With CAE's Training for Life, you now have access to free and unlimited beginner to advanced simulator training courses for everyone on your staff with the purchase of a CAE Assurance plan. This benefit extends to everyone in your institution for the life of your simulator. Training for Life offers you the opportunity to refresh your skills, learn current best practices, and ensure you are getting maximum training value from your simulator. Training for Life includes access to all courses taught by our clinical experts and certified technicians.

System Software Upgrade Support

Customers with current support and maintenance plans are entitled to receive updates and upgrades to applications software previously purchased. Installation of the system software is the user's responsibility.

The System Software Upgrade Support includes software upgrades for base software and purchased optional learning modules.

Note: This does not apply for major upgrades or technological enhancements.

Time and Materials

For those systems not under a support and maintenance plan, service will be provided as required on a Time and Materials basis:

The principal period of on-site support (customer's local time) is:

- Monday through Friday, 8:00 AM to 5:00 PM (customer's time zone)
- Holiday and non-business days excluded
- Support outside principal period is billed at the premium rate (hourly rate x 1.5)

A minimum of 48 hours notice is required for scheduling an on-site support call. Urgent on-site support with less than 48 hours notice will be charged at the premium hourly rate.

On-site time is described as the time period commencing from arrival at customer site through departure from customer site.

How to Contact Customer Service

For customer service, please contact CAE.

CAE Customer Service Headquarters - United States and Latin America

Monday - Friday from 7:00 a.m. to 6:00 p.m. ET
Toll Free:+1 (866) 462-7920
24-hour Hotline:+1 (941) 342-5605
Fax:+1 (941) 342-5600
Email:customerservice@caehealthcare.com
Website: www.caehealthcare.com

CAE Customer Service - Canada

Monday - Friday from 8:00 a.m. to 5:00 p.m. ET
Toll Free:+1 (877) 223-6273
Email:can.service@caehealthcare.com

CAE Customer Service - Europe, Middle East and Africa

Monday - Friday from 8:00 a.m. to 5:00 p.m. CET
Phone:+49-(0) 6131 4950354
Fax:+49 (0) 6131 4950351
Email:international.service@caehealthcare.com

CAE Customer Service - United Kingdom and Ireland

Monday - Friday from 9:00 a.m. to 5:00 p.m. GMT
Phone:+44(0)800-917-1851
Email:uk.service@caehealthcare.com

Note: Principal hours of operation exclude holidays and non-business days.

IMPORTANT: Technical and clinical phone support are available ONLY for products with active support and maintenance plans.

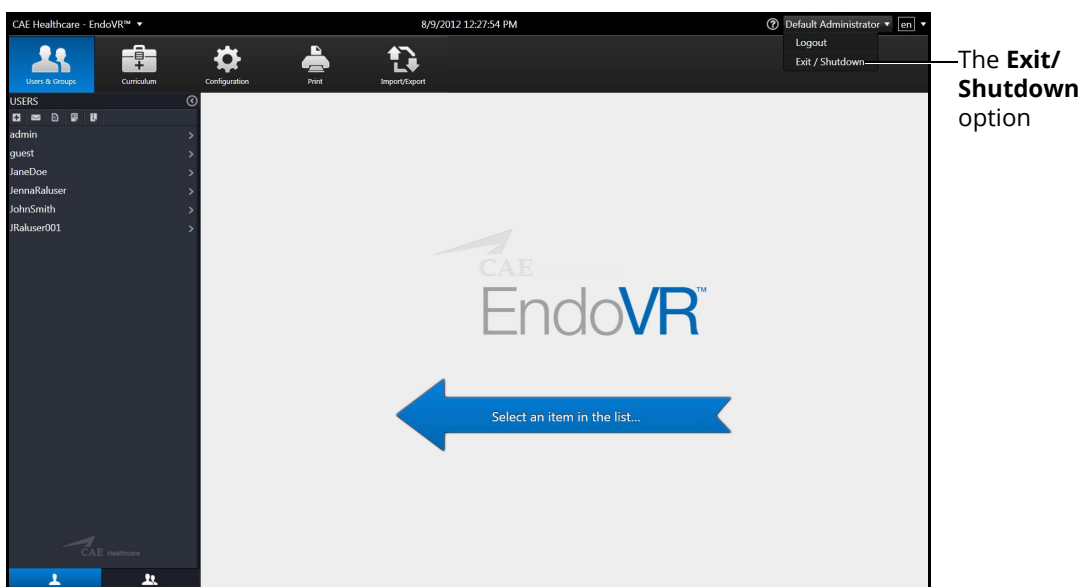
Breakdown

The EndoVR simulator should be properly stored in a secure place. To ensure that the simulator remains in good working condition, follow the prescribed CAE breakdown procedures below. The procedures are estimated to take less than five minutes.

Note: Users must be in logged in as an administrator to complete the shutdown process.

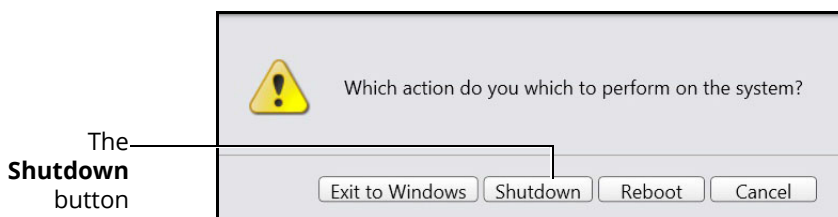
To break down the simulator:

1. Click on the username in the top right corner of the screen



The Home Screen with Logout Drop-Down Menu

2. Select **Exit/Shutdown** from the drop-down menu

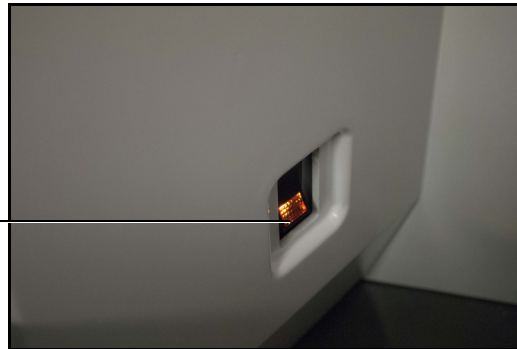


The Shutdown Message

3. Click **Shutdown**. The simulator powers down

4. Press the bottom of the orange illuminated power switch. This ensures the simulator is powered off.

The bottom of
the orange
power switch



The Power Switch Illuminated

To store the simulator:

1. Unplug the power cord from the power source
2. Unlock the wheel brakes
3. Push the simulator to a secure location

APPENDIX A - MODULE DESCRIPTIONS

The EndoVR simulator contains several modules for learners to practice performing endoscopic and bronchoscopic procedures using different techniques and tools. Modules are bundled in three packages: Bronchoscopy, Lower GI and Upper GI.

The following table outlines the various modules offered for the EndoVR simulator.

Package	Module	Description
Bronchoscopy	EBUS-TBNA	Complete an Endobronchial Ultrasound with Transbronchial Needle Aspiration.
	Intro to BAL	Complete common tasks performed during a bronchoalveolar lavage.
	Intro to Bronch	Complete common tasks performed during a bronchoscopic procedure.
	Ped Diff Airways	Perform bronchoscopic procedure tasks involving a pediatric difficult airways.
	Bronch Sampling	Complete common tasks performed during a bronchial sampling
	Bronch TBNA	Complete common tasks performed during a transbronchial needle aspiration.
Lower GI	Biopsy	Complete common tasks involved in a lower gastrointestinal biopsy.
	Intro to Colonoscopy	Complete common tasks involved in a colonoscopy.
	Intro to Flex Sig	Complete common tasks involved in viewing the pathologies using a flexible sigmoidoscopy.
	Polypectomy	Complete common tasks involved in a lower gastrointestinal polypectomy.
Upper GI	Bleeding	Complete common tasks involved in treating upper gastrointestinal bleeding.
	Intro to EGD	Complete common tasks involved in an esophagogastroduodenoscopy.
	Intro to ERCP	Complete common tasks involved in an endoscopic retrograde cholangiopancreatography.

Module Instruments and Required Equipment

In each of the modules, different instruments, medication and equipment are used to complete the selected task.

Bronchoscopy

The Bronchoscopy modules present the learners with different scenarios and cases to complete using the bronchoscope and related tools

Module	Available Instruments	Medications	Required Equipment
EBUS-TBNA	<ul style="list-style-type: none"> • Needle • Stylet • Syringe 	Topicals: <ul style="list-style-type: none"> • Saline • Lidocaine IV Medications: <ul style="list-style-type: none"> • Fentanyl • Meperidine • Midazolam • Naloxone 	<ul style="list-style-type: none"> • EBUS-TBNA accessory tool • Bronchoscope
Intro to BAL	<ul style="list-style-type: none"> • Needle 	<ul style="list-style-type: none"> • Saline • Lidocaine • BAL 	<ul style="list-style-type: none"> • Bronchoscope • Foot pedal
Intro to Bronch	<ul style="list-style-type: none"> • Needle • Suction 	<ul style="list-style-type: none"> • Saline • Lidocaine 	<ul style="list-style-type: none"> • Bronchoscope • Foot pedal
Ped Diff Airways	<ul style="list-style-type: none"> • Jaw Thrust • Suction 	<ul style="list-style-type: none"> • Saline • Lidocaine • Ketamine • Halothane 	<ul style="list-style-type: none"> • Bronchoscope • ET tube • Foot pedal
Bronch Sampling	<ul style="list-style-type: none"> • Brush • Needle • Forceps • Suction 	<ul style="list-style-type: none"> • Saline • Lidocaine • EPI 	<ul style="list-style-type: none"> • Bronchoscope • Foot pedal

Module	Available Instruments	Medications	Required Equipment
Bronch TBNA	<ul style="list-style-type: none"> • Needle • Suction • CT scan 	<ul style="list-style-type: none"> • Saline • Lidocaine • EPI 	<ul style="list-style-type: none"> • Bronchoscope • Foot pedal

Lower GI

The Lower GI modules present the learners with different scenarios and cases related to the lower GI tract. Learners use an endoscope and related tools to complete the procedures.

Module	Available Instruments	Medications	Required Equipment
Biopsy	<ul style="list-style-type: none"> • Needle • Forceps • Syringe • Suction • Air/Water 	Topicals: <ul style="list-style-type: none"> • Saline • Lidocaine IV Medications: <ul style="list-style-type: none"> • Fentanyl • Meperidine • Midazolam • Naloxone 	<ul style="list-style-type: none"> • Upper/Lower GI accessory tool • Endoscope
Intro to Colonoscopy	<ul style="list-style-type: none"> • Suction • Air/Water 	IV Medications: <ul style="list-style-type: none"> • Sedation 	<ul style="list-style-type: none"> • Endoscope
Intro to Flexible Sigmoidoscopy	<ul style="list-style-type: none"> • Suction • Air/Water 	None	<ul style="list-style-type: none"> • Endoscope
Polypectomy	<ul style="list-style-type: none"> • Needle • Forceps • Syringe • Suction • Air/Water 	IV Medications: <ul style="list-style-type: none"> • Sedation • Counter Sedative 	<ul style="list-style-type: none"> • Upper/Lower GI accessory tool • Endoscope

Upper GI

The Upper GI modules present the learners with different scenarios and cases related to the upper GI tract. Learners use an endoscope and related tools to complete the procedures.

Module	Available Instruments	Medications	Required Equipment
UGI Bleeding	<ul style="list-style-type: none"> • Wire Grasper • Clip Applier • BICAP Probe • Injection Needles • Irrigation • Suction • Air/Water 	IV Medications: <ul style="list-style-type: none"> • Fentanyl • Flumazenil • Meperidine • Midazolam • Naloxone 	<ul style="list-style-type: none"> • Upper/Lower GI accessory tool • Endoscope
Intro to EGD	<ul style="list-style-type: none"> • Cytology brush • Forceps • Suction • Air/Water 	IV Medications: <ul style="list-style-type: none"> • Sedation • Counter Sedative • Atropine Sulfate 	<ul style="list-style-type: none"> • Upper/Lower GI accessory tool • Endoscope
Intro to ERCP	<ul style="list-style-type: none"> • Suction • Air/Water • Single lumen cannula • Thin tapered cannula • Sphincterotome • Spiked forceps • Hydrophilic guidewire • Instill contrast 	IV Medications: <ul style="list-style-type: none"> • Sedation • Counter Sedative • Glucagon • Atropine Sulfate 	<ul style="list-style-type: none"> • Upper/Lower GI accessory tool • Endoscope • Foot pedal