The Complete Guide to Converting to CAE Maestro

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Introduction

CAE Maestro is the latest generation of patient simulation software. Featuring the power of CAE Physiology for model-driven simulation and designed with a streamlined interface for instructor-driven scenarios, CAE Maestro is the most comprehensive and user-friendly application of its kind.

This document highlights the differences between Maestro and its predecessors (Müse and Vivo), and it answers the frequently asked questions about converting from Müse to Maestro. It includes important information that customers should understand before converting their simulators.

Key Benefits of Maestro

- Ideal for both model-driven simulation powered by CAE Physiology and instructor-driven ("manual-mode") simulation with a streamlined interface
- Designed for both PC and tablet
- More intuitive and efficient user interface
- More information for facilitator and learner
  - more detailed patient status
  - graphical indicators of patient changes and interventions performed
  - categorized logs
  - display of CPR feedback on patient monitor for coaching
- More control over the patient and monitors
  - access to settings by clicking widgets
  - quick undo of settings
  - instructor control of patient monitor
  - access to more bleeding parameters when running SCEs for Apollo
- Expanded assessment capabilities
  - custom checklists
  - multiple checklist instances
- Easier content development and management
  - no more separate patient and scenario libraries to manage
  - associate patient records (media files) with SCEs
  - test model-driven scenarios while editing
- Platform switching, the ability to develop content for any type of simulator from a single Maestro Standalone installation
- Under the hood, the latest web-based interface technologies
- Enhanced interoperability with the CAE ecosystem and third-party devices
- Support for future learning modules and exciting improvements to CAE Physiology

Pricing

- List price, $5995 USD
- Promotion effective through March 15, 2019, 20% discount ($4796 USD)
  - Customers with units under warranty are entitled to an additional discount of 5-10%, under the terms of the warranty, amounting to total discounts as follows:
    - Value warranty, 25% total discount ($4496 USD)
    - Premier and Premier Plus warranties, 30% total discount ($4196 USD)
- Each Maestro conversion also includes one free license for both Maestro Standalone and the Standalone Physiology option.
- Apollo units received by the customer after November 30, 2017 are eligible for a free conversion to Maestro. Customers with qualifying units will receive an email with instructions and the required license key(s).

Compatible Simulators

- Maestro is compatible with the following Apollo and METIman units:
  - Apollo units with the MikroTik router
    - The router is located beneath the manikin's abdominal insert, and "MikroTik" is embossed on its top surface.
  - Apollo units with any other router – *Apollo Router Upgrade required*
    - Apollo Router Upgrade, $200 USD
      - The router will be configured by CAE and can easily be installed with instructions we provide.
  - METIman units starting with serial numbers MMP1129 and MMN0577 – *Apollo Upgrade and Apollo Router Upgrade required*
    - Apollo Upgrade, $3000 USD
      - The upgrade does not confer any additional warranty or prolong the unit's eligibility for extended warranties.
      - This upgrade must be performed by a technician. The customer is responsible for shipping their unit to a CAE Customer Service location, but return shipment is included in the upgrade price. Alternatively, the customer can opt for on-site installation, only if part of an already scheduled preventative-maintenance visit. In this case, the portion of the price representing return shipping is instead applied to the incremental technician travel expenses.
        - CAE is not responsible for repairing any damage to units not under warranty. The customer will be given the option to pay directly for any repairs.
        - If preventative maintenance is not or cannot be scheduled before April 1, 2019, the customer must opt to ship the unit to CAE to qualify for the promotion.
        - If the customer does not have the original packaging, they must pay a fee of $400 USD for new packaging and its shipment to them.

- Apollo Router Upgrade, $200 USD
  - The router will be configured by CAE and can easily be installed with instructions we provide.
- The simulator to be converted to Maestro must be updated to Müse v2.8.293 or later (a free update), even if the you only use Vïvo.
- The simulator must have a compatible instructor computer.
  - Any system with a laptop is compatible.
  - METIman/Apollo units configured with only a Vïvo tablet will require a Samsung Galaxy S3 tablet or a compatible laptop, which can be purchased from CAE or another supplier.

Conversion of Muse SCEs

- Upon conversion to Maestro, all Müse content (user-created and factory SCEs) loaded on the simulator will be converted to their Maestro equivalents.
- A utility will be available for converting batches of Müse SCE files that are not stored on the simulator at the time of conversion.
- In general, SCEs are expected to run the same in Maestro as they did in Müse with exceptions noted below, affecting a very small fraction of content. However, users will be cautioned to verify the operation of their converted content before conducting training.
- Vïvo content is not retained at the time of conversion.

Temporary Exclusions

To ensure quality, the following features of Müse that are intended for Maestro are not included in the initial release for Apollo (v1.5):

- Thermodilution cardiac output
- Custom medication responses
- Support for Portuguese and Polish
- Celsius/Fahrenheit setting
- Printing SCEs as PDFs

Purposeful Exclusions

- Multiple scenarios running simultaneously
  - This little-used feature has been excluded to simplify the interface.
  - Upon conversion, multiple scenarios in any Müse SCE will be merged into a single scenario.
- Automatic application of the first scenario state upon starting the SCE
  - Most Müse users did not like this behavior and had to work around it by creating a dummy state at the start of each scenario.
  - In Maestro, scenarios are started manually, at whichever state the instructor chooses.
- Custom conditions

- o This feature was never fully implemented in Müse, in that SCEs with custom conditions could not be exported.
  - o In most use cases, the same functionality can be accomplished with scenario states.
  - o Upon conversion, custom conditions in Müse scenario states will be replaced with the collection of individual settings in that custom condition.
- User accounts
  - o Customers told us that they do not use the user-account system in Müse and that it is an inconvenience. Maestro has no user accounts at this time. Security of the system and customer data can be achieved by setting a password on the instructor device (tablet or laptop).
- A Vivo feature, Pathways, does not exist in Maestro. The same trends in clinical signs can easily be created with Maestro's scenario editor.

User-Interface Improvements Impacting the Presentation of Content

- While in Müse, the patient baseline acts like a scenario state that is applied at the start of the SCE, the patient baseline in Maestro modeled-mode SCEs lets you snapshot a patient at exactly the moment you want the scenario to begin. This is the replacement for saving patients into a separate library, and when creating a new SCE, the user can now simply import a patient from any existing SCE. Upon conversion from Müse, any patient-baseline settings in SCEs become part of a new state in the scenario, called Baseline State.
- There is no longer a separate scenario library. When creating a new SCE, the user can simply import a scenario from any existing SCE.
- Müse's cardiac rhythms with fixed heart rates are replaced by simply setting the cardiac rhythm and heart rate independently. Likewise, the PVC probability can be set independently for any applicable rhythm.
- The PEA rhythm is now just Sinus rhythm with the PEA option turned on. The new PEA option can be used with any rhythm to stop cardiac output, which disables pulses and—when using the physiological model—causes all the other expected changes to the patient.
- There is no bowel sound option for "none" anymore. Converted Müse content will use the muted option, instead.
- Stridor is now found among the so-called Vocal Sounds.