

IOS Emulation for Legacy Simulators

Features

- Eliminates Rewrite/Retest/Recertification of Simulator IOS Software
- No Host Application Code Modification Required
- Optional State-of-the-Art IOS Designer Tool Suite
- Runs under SUSE® Linux®; includes Qt and OpenSceneGraph

BENEFITS

- Reliability, Maintainability, and Upgradability
- Significant Reduction in Future Development/Maintenance Cost and Risk

COMPRO's Modular Universal Simulation Environment (MUSE™) IOS emulators provide a cost-effective solution for migrating your simulator's aging Instructor/Operator Station (IOS) to state-of-the-art technology **without changing the form, fit, or function of your existing IOS displays**. The emulator module replicates IOS systems, including Vistagraphics and Charles River Data Systems, resulting in a new IOS that fully retains legacy IOS functional characteristics.

- From a maintenance/support perspective, COMPRO's MUSE™ IOS offers superior long-term supportability by using commercial-off-the-shelf assemblies, thereby eliminating proprietary, obsolete, and hard-to-find components.
- From an instructor/operator perspective, COMPRO's MUSE™ IOS offers seamless integration for the instructor/operator, because its emulation is completely identical to the legacy IOS.

Legacy Emulator Characteristics

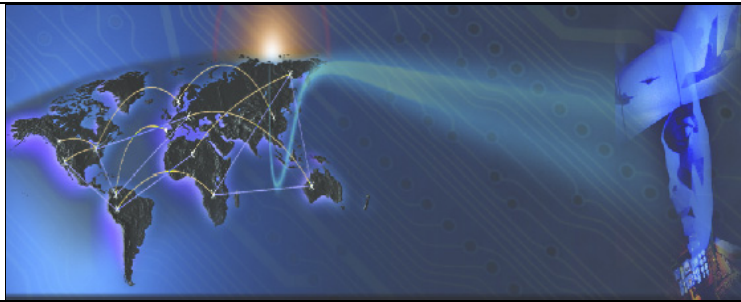
- **Host compatibility** – No host computer application code modification is required. Depending upon your legacy IOS configuration, the simulator will continue to interface with the new IOS via HSD or Reflective Memory System (RMS).
- **Low-cost COTS platform** – Includes state-of-the-art hardware commercial components (personal computers, LCD monitors/touch screens, etc.) running under the Linux® operating system.
- **Expandability** – Capable of expansion options such as Electronic Qualification Test Guide (e-QTG) and modern printer connectivity.

MUSE™ Core Software Characteristics

- **Enhanced IOS features** – Optional leading-edge IOS Designer™ tool suite for developing new windows (such as for flight data analysis) or a new, completely modernized IOS GUI.
- **Enhanced runtime features** – Provides multiple camera views; simultaneously displays a training video with a sound track; displays real time 3D aircraft parameters, and resizes/repositions IOS panels in real time.
- **Laptop compatibility** – Optional laptop execution for off-site IOS development and maintenance.
- **Standardized data compatibility** – Parses XML data files for visualizing simulator data via a simple user interface.

MUSE™ Lesson Plan Builder™

- Optional **Lesson Plan Builder™** in which you select controls, functions, malfunctions, etc. and organize them sequentially into a training exercise that, when initiated, executes the training with minimal Instructor/Operator input.



IOS Emulation for Legacy Simulators (Cont'd)

MUSE™ IOS Designer™

The IOS Designer™ is a robust, object-oriented tool suite with which you can further upgrade your legacy IOS software or analyze simulation runtime data:

- **Page Builder™** – A set of cross-platform tools for easily developing IOS pages in a new window.
- **Glass Builder™** – An intuitive GUI for creating flight instruments/gauges for IOS runtime panels.
- **HUD Builder™** – A simple tool for interactively changing the look of IOS HUD in desktop mode or during run time.
- **Logic Builder™** – An easy-to-use GUI for creating interactive, online electronic schematics that can be used for development, debugging and troubleshooting.



Ordering Information

COMPRO can provide a total systems solution to address your needs:

Option	Description
Legacy IOS System Emulator	Emulator module that duplicates the legacy IOS (such as Vistagraphics, Charles River Data Systems, etc.)
Modular Universal Simulation Environment (MUSE™) Core	Includes state-of-the-art software for developing GUIs and graphics (Qt and OpenSceneGraph) along with the powerful MUSE™ runtime engine, APIs, Shared Memory editor, and MUSE™ libraries. Also includes the MUSE™ IOS Designer™ tool suite.
Lesson Plan Builder™	Software and documentation for developing automated flight training curriculum
Installation	On-site installation with applicable runtime licenses
Support	One year (renewable), which includes priority telephone technical support, parts exchange, software and hardware updates; and documentation updates. Other types of support packages also are available.
Documentation	<ul style="list-style-type: none"> • Installation, start-up, and troubleshooting procedures for emulation system • COMPRO technical manuals and user guides; all applicable vendor manuals
Training	Minimum one day on-site (with installation) including page editing, development tools, and options.

* Pricing dependent on configuration options selected.



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