



▷ EOS is the latest version in a long line of widely deployed Econolite controller software. Econolite controller software controls an estimated 60,000 intersections in North America

About EOS

Offering improved usability with redesigned user interface and traffic control algorithms, Econolite's EOS is the next-generation traffic controller software developed for the Econolite Cobalt and other properly configured ATC controllers.

EOS was founded upon the rich set of NTCIP 1202 and Econolite proprietary traffic control features. EOS provides an expansion of traffic control capabilities, while focusing upon simplicity and ease-of-use. This software provides a timely preparation for the forthcoming demands of Connected Vehicle traffic control systems.

EOS is developed for the Econolite Cobalt ATC, Safetran 2070C, and other properly configured ATC controllers.

At A Glance

- ▷ User Security login for field access management (like was already available in character UI)
- ▷ Android Phones and Tablets support (Android store marks minimum version, I think 4.0)
- ▷ Key navigation across the UI for touch-less management
- ▷ Key shortcut (SpFn + Main) to switch to classic UI



Description

Econolite EOS' user interface has been designed to maximize usability of traditional displays, as well as incorporating a new web user interface that includes a virtual suitcase tester. EOS can be accessed via a network interface, which can be local or remote, wired or wireless, and allows monitoring or programming of the controller through any web-enabled device, including smart phone, tablet, laptop, or desktop computer.

EOS' new leading-edge features and enhancements also include:

- User Security login for field access management (like was already available in character UI)
- Android Phones and Tablets support (Android store marks minimum version, I think 4.0)
- Key navigation across the UI for touch-less management
- Key shortcut (SpFn + Main) to switch to classic UI
- Swipe out tray for quicker navigation between page stacks
- Removed page borders to allow for more usable page layouts
- Rewritten data engine for fast loading of content
- Stability of loading/unloading pages which caused slow downs after prolonged usage
- Support for all Cabinet types in configuration and status

Improved Traffic Control

EOS has improved real-time decision-making, allowing dynamic changes to nearly all features and timing 'on-the-fly'. EOS supports the configuration of phase and overlap timing in predefined tables that can be swapped to meet immediate needs. Dynamic-sequencing is achieved by updating prior phase-next selections at the end of a red clearance and even allows phase-sequence swaps in the middle of active phase timing.

EOS features a brand new coordinator design, enabling immediate coordination decisions rather than awaiting a cycle endpoint. This coordinator includes adaptive split balancing using the Purdue GOR/ROR5 metric for phase failure. This Coordinator goes a step further by supporting localized adaptive splits. Adaptive splits perform a split re-allocation, balancing splits per the newly published GOR/ROR5 metric. This feature brings many of the operational benefits of adaptive control, without the need for a separate adaptive control system.

Preparation for the Future

EOS' improvements to the core traffic controller operation, enhanced features, and improved usability, helps prepare transportation agencies, cities, MPOs, and others for support of Connected and Autonomous Vehicles (CAV) and Smart City applications. EOS currently supports SPaT, MAP, SRM, and BSM messages per the latest SAE J2735 standards.

