SIEMENS

SafeSuite - Intersection Software Solution

EAGLE ATC_{NX} Controller - the next generation platform for SafeSuite

Introducing SafeSuite

Siemens ITS is maximizing safety and efficiency with our new suite of traffic management software applications. Increased traffic volume and higher driving speeds are placing greater demands on traffic control systems. It is clear that concerns for the safety of the motorists and communities who depend on efficient and effective traffic control has never been more important.

The new "SafeSuite" of controller software from Siemens ITS offers invaluable resources for managing intersection traffic flow, identifying and tracking hazardous driving, and ultimately reducing the number of accidents.

Security+Intelligence

Siemens ITS' SafeSuite software runs on the next generation EAGLE ATC$_{NX}$ using the Linux operating system. SafeSuite takes advantage of the EAGLE ATC$_{NX}$'s powerful new engine board and expanded flash memory drive to store and run a suite of intelligent intersection software packages. By allowing the user to load a wealth of Siemens ITS intersection control software packages, as well as third-party applications, and then enable them as needed, SafeSuite greatly enhances the safety and security of intersection control and management. Siemens ITS' SafeSuite of applications is customizable to meet the unique needs of each jurisdiction. Each application within the suite can be individually licensed for each intersection.

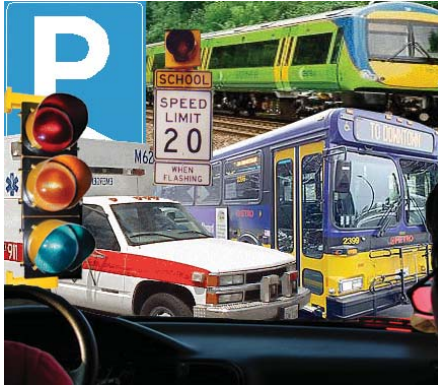## SafeSuite includes these state-of-the art applications:

- NextPhase intersection management software - local controller software designed to tap the power of the ATC controller;
- SE-PAC local controller software - diverse and proven local controller software for NEMA and 2070 controllers;
- Precision Traffic Systems - intersection software providing safety research, automated enforcement, and collision and near-miss prediction.

In addition to these three powerful applications, Siemens ITS will begin adding other innovative intersection software to the ATC$_{NX}$, such as ACS Lite, SCOOT, MOVA and RHODES Adaptive Traffic Control software, plus our Master Controller Software and our NextRamp Ramp-Metering software.

Intelligent Transportation Systems

NextPhase

NextPhase intersection management software is a next-generation approach structured to satisfy the most demanding of modern traffic signal control applications. The industry's most powerful intersection management software, NextPhase provides the functionality to operate complex intersections including the management of multiple signals with one controller, actuated coordination, pedestrian overlaps, unequal double cycling, transit priority, and much more.

NextPhase is a fully distributed intersection management package designed for optimal isolated or system coordinated management. The package can support extensive local traffic optimization capabilities and flexible coordinated operation. Communications capabilities include California's AB3418 and National Transportation Communications for ITS Protocol (NTCIP).

SE-PAC

Traffic capabilities for SE-PAC local controller software include:

- **Six Coordination Modes**
- **Adaptive Traffic Control** - offers simple or complex traffic control via 16 vehicle phases, 16 overlaps, 16 pedestrian phases, 80 detectors.
- **Preemption/Priority Routines** - Includes 6 preempt routines and 6 priority routines, providing complete phase control and in-sync return to coordination.
- **Numerous Standard Reports** - local alarm log, communication fault log, detector fault log, and many more.
- **Built-In Diagnostics**
- **Time-Based Control** - highly flexible routine includes 99 day programs, 10 week programs, and more.
- **NTCIP compliant**

PTS

Intersection safety features of PTS software include:

- **Safety Research** - Automated data collection software tracks red light running, speeding, and all vehicle traffic. The browser based reports for violating and non-violating traffic provide critical context with which to analyze dangerous driving behavior.

- **Automated Enforcement** - Red light violations are tracked and recorded with a high resolution digital camera. Violation data and images are automatically combined and sent over a secure network for citation processing. A high performance image capture system records even high volume, multiple violation occurrences.

- **Collision and Near-Miss Prediction** - Intelligent detection algorithms define a track for each vehicle traveling through the intersection. Real-time tracking and analysis of vehicles in all four approaches, along with speed and signal state, allow the system to predict collisions and near-misses. This data can be used as part of a real-time collision avoidance system, or combined with the safety research data for a detailed analysis of the intersection's safety characteristics.

For more advanced future features and/or more information on Siemens ITS software products call (512) 837-8310 or call your local dealer (see website for the dealer in your area).

Siemens ITS reserves the right to alter any of the Company's products or published technical data relating thereto at any time without notice.

EPAC, ACTRA, SafeSuite, NextPhase, SE-PAC, SE-MARC are Trademarks of Siemens ITS, Austin, Texas.

SIEMENS