TransLink 32™
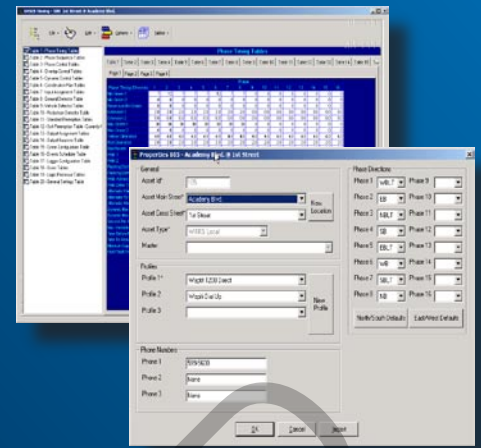
TransLink 32 is a high performance closed loop software package, designed to monitor type 170 and 2070 master and local controllers.

Features

- TransLink 32 provides an intersection drawing tool that allows the operator to create intersection drawings using BMP or JPEG files as backgrounds. Traffic signal icons are added to the base drawings using drag-and-drop techniques. Sectional head displays, as well as arrows that change color (red-yellow-green), can be placed on the base maps. Base map templates are included with TransLink 32.

- TransLink 32 provides a scheduler for running events. At a minimum, the scheduler allows uploads of all master logs, download of real-time data and downloading of manual commands. The scheduler is capable of scheduling events daily, weekly, monthly and yearly. The log data is stored in the Microsoft® database.

- TransLink 32 provides multi-level security, and is capable of logging user activities.

- TransLink 32 provides three levels of security access - Read Only, Read/Write or Administrator.

- Passwords can be cleared by the System Administrator without knowledge of the actual password. This feature can be utilized if a user forgets his/her password, or if a user is deleted from the system.

- TransLink 32 has a customized install program that automatically loads the program on to your computer.

- TransLink 32 provides a user-assignable program manager that allows other programs to be launched from within TransLink 32.

- TransLink 32 interfaces with Synchro® Interface Module and transfers timing and sequence parameters to and from the Synchro® program, to enhance easy transfer of intersection data.

- TransLink 32 provides user selectable communication delays to operate with virtually any communication device.

- TransLink 32 adheres to the Microsoft® standard for GUI Interfaces. The interfaces have been designed with the traffic engineer in mind, and provide recognizable commands and interfaces. This will enable the user to interface with the program easily, and reduce training time and costs.

- The traffic database generated by TransLink 32 is easily and quickly convertible to the **PYRAMIDS**™ ATMS database, to allow an easy upgrade path.

- Reports can be acquired from the remote masters. When TransLink 32 is interfacing with **OASIS**™ programs, MOEs based on stops, volume, occupancy and speeds can be generated on the computer CRT, or can be printed on any printer.

- New intersections can be easily added to the TransLink 32 data base with simple point-and-click actions.

- Three different communication profiles and three independent telephone numbers can be programmed and called up via communication icons. This will enable a user to change his location and computer setup quickly and easily.

- TransLink 32 can be loaded on a laptop and conveyed to the field to interface directly with the various controller devices.

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- The entire database can be saved, archived, restored, appended, purged and viewed simply with point-and-click-actions of the mouse.
- TransLink 32 displays customizable intersection drawings, with real-time traffic signal icons that change color and mimic the status of the controller colors in the field. This intersection display also indicates the plan, local clock, and interval status of the local controller.
- TransLink 32 has a test display that mimics a standard intersection suitcase tester, wherein no customized drawings are required. The display is designed to indicate up to 16 phase and pedestrian signal and overlaps. In addition, preemption status can be displayed and detection may be assigned to both vehicular phases and pedestrian phases.
- A communication test display is provided between the central software and the local controllers. The display will accumulate the number of communication attempts and compare that to the number of actual successful connections in a graphical format.
- A real-time clock display is incorporated to allow the user to view the local controller clock time and date simultaneously with the central PC clock time and date. TransLink 32 provides the user with the option to update the local controller with the PC clock, or to update the PC clock with the controller clock.
- A front panel display is provided that mimics the actual front panel of the 170 controller. The actual data displayed on the front panel of the controller located in the field is brought back to the central computer.
- A notepad database is maintained for each controller asset as well.

Description

TransLink 32 is ideally suited to monitor transportation devices in smaller cities or on multiple arterials and has been specifically designed to manage congestion, provide an intuitive traffic engineering interface, aid in community information distribution and interdepartmental integration. The program is written in high-level languages that support a 32-bit platform. The program has been developed to interface with such standard devices as 170 controllers, 2070 ATC controllers, and NEMA controllers interconnected via the ICM device. The central software interface is capable of running in a stand alone mode employing the 32-bit Microsoft Windows® 2000 operating system.

TransLink 32 interfaces with the Wapiti MicroSystems W41KS and W9FT local software packages, as well as the W70SM master package employing both the Wapiti standard protocol and our enhanced protocol. In addition, TransLink 32 interfaces with **OASIS** /OSM 2070 Master/Local controller program. TransLink has been designed to mix and match different controllers seamlessly into one system.
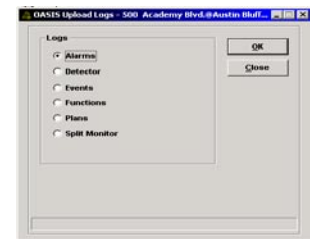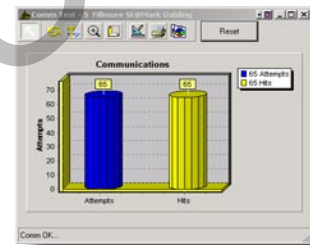
TransLink 32 utilizes Microsoft® Access database for storage of all detector, timing and status information. The Crystal Report™ generator is used to prepare the reports. The user can easily format all reports that reference the Microsoft® access data fields. It is easy to preview each report prior to printing.

TransLink 32 utilizes intersection data files, wherein timings are entered through spreadsheet-like tables, into the Access database. All timing parameters are range-checked.

TransLink 32 provides the capability of uploading and downloading timing data to/from both local and master controllers. It is possible to compare timing data from controllers with the timing data stored on disk, any differences will be highlighted in a manner obvious to the operator.

TransLink 32 monitors local and master controllers for failures, as well as providing real time graphic displays for local intersections and entire areas. The local intersection display indicates phase conditions, detector actuations, preempts, plans in use, force offs, and local time clocks. It is possible to send vehicle calls and pedestrian calls from the TransLink 32 to the local controller. The area display provides views for main street, green, and various failure modes. There is also a real-time display showing volumes and occupancies for system detectors.