



Synchro® 11

plus **SimTraffic®**

Signal Timing & Analysis Software

Now Integrates with ATMS Central Transportation Management System

Product Features & Capabilities

Synchro Studio is a robust, easy-to-use traffic signal timing application that helps traffic engineers and transportation planners design, model, optimize, simulate, and animate signalized as well as unsignalized intersections (including roundabouts).

Synchro Studio provides premier applications for traffic analysis, optimization, and simulation. The package combines the modeling capabilities of Synchro signal timing & analysis software, the micro-simulation and animation capabilities of our SimTraffic software, and our three-dimensional viewer, creating the ultimate tool kit for any traffic engineer.

Synchro Studio 11 includes:



Synchro

Design, model, and optimize traffic signal infrastructure.



SimTraffic

Simulate real-world vehicular and pedestrian traffic scenarios.



3D Viewer

Convert two dimensional modes from SimTraffic to a 3D Viewer application.

Supplemental modules:



Warrants

Evaluate a network of intersections according to the Manual on Uniform Traffic Control Devices (MUTCD) standards and guidelines for signalization.



TripGen

Calculate the expected number of trips based on data from the Institute of Transportation Engineer's (ITE) Trip Generation Manual.

Enhanced Two-Way Integration between Synchro Traffic Analysis and ATMS Central Transportation Management System

Why do traffic agencies, planners and consultants use Synchro Studio?

- Over twenty years of industry use, ensuring the product is tested and proven.
- Provides users with a powerful microsimulation tool.
- Pays for itself after your first traffic signal or traffic analysis project.
- Ease-of-use and adoptability, allowing engineers to analyze traffic operations in days versus weeks.
- Supports Highway Capacity Manual (HCM) 6th Edition, 2010 and 2000 best practice methodology for signalized intersections, unsignalized intersections and roundabouts.
- Implements the Intersection Capacity Utilization (ICU) Method.
- Convenience of enhanced two-way integration with the most technologically advanced ATMS Central Transportation Management Software.
- Allows users to save multiple scenarios to a single file.

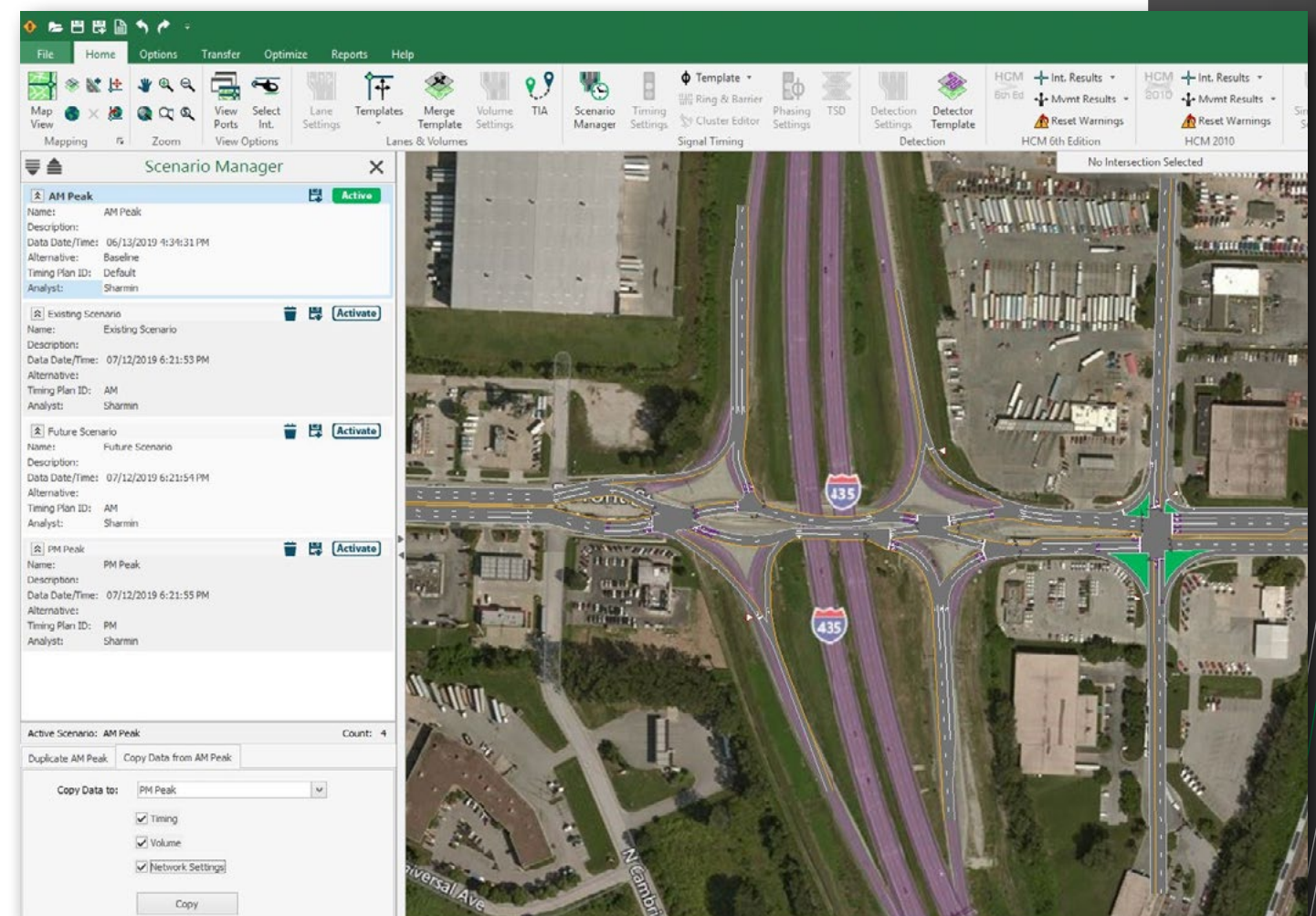
Bing Maps

Bing™ Maps is now the default Synchro Background. This increases the efficiency of coding a Synchro Network without putting in the extra effort to import a background image. Using Bing Map assures that the Synchro network is scaled properly and follows accurate latitude and longitude.

Scenario Manager

- Save multiple scenarios (AM peak, PM peak, Existing, Future etc.) to a single Synchro file.
- Change the timing plan for each scenario separately.
- Change the volumes for each scenario separately.
- Change geometry in one place. Synchro will automatically apply the change to all scenarios in the Synchro file.

Scenario Manager allows you to reduce the number of Synchro files needed by saving multiple similar scenarios in one Synchro file. Geometry will be synched across all scenarios, reducing coding errors and improving efficiency. You can quickly switch between scenarios allowing for easier analysis of results with different volumes and/or timings.



Additional Software Applications



TripGen

TripGen is a simple, easy-to-use tool that calculates trip generation based on ITE's Trip Generation Manual, editions 8, 9 and 10. The analyst selects the desired independent variable and then calculates driveway volumes by using the rates or equations found in the Trip Generation Manual.

- Project information description and note input fields
- Project Tree that accomodates multiple Alternatives and Phases
- Create Custom trip rates, including pass-by and internal trip rates
- Easily compare number of trips based on average rates vs. equations
- Import calculated number of trips into Synchro's TIA module
- Flexible reporting options



Warrants

Warrants is an easy-to-use product that enables traffic professionals to determine whether a traffic signal is needed for an intersection. Warrants will evaluate an entire network of intersections at once, capturing multiple volume periods for each intersection. Layout and volume information are directly imported from Synchro for easy model setup.

Support and Maintenance

Since the release of Version 10, a Software Maintenance Agreement is provided to ensure you receive timely support and the latest software updates. Users have access not only to the current Support Site, but also unlimited access to training videos, selected webinars, and discounts on face-to-face training classes.

Training videos are aimed at providing users brief, focused information on a particular feature within Synchro or SimTraffic, viewable at any time. Version 11 users will receive discounted access to selected virtual classes and face-to-face training courses.

	V8	V9	V10	V11
HCM 2010 Methodology	✓	✓	✓	✓
Use of Bing™ Maps	✓	✓	✓	✓
Improved Lane Change Capabilities (SimTraffic)	✓	✓	✓	✓
Record Videos of Simulation (SimTraffic)	✓	✓	✓	✓
Lane and Phasing Templates	-	✓	✓	✓
View Ports	-	✓	✓	✓
Advanced Signal Optimization Capabilities	-	✓	✓	✓
Traffic Impact Analysis (TIA)	-	✓	✓	✓
HCM 6th Edition Methodology	-	-	✓	✓
Modern, Easy-to-Use Ribbon Bars	-	-	✓	✓
Scenario Manager				✓
Bing™ Maps as Default Background				✓