

Introduction

General Information

****Foreword****

“**Traffic Tool Essentials** originally emerged out of necessity and is based at its core on the framework that slyh thankfully already built:

"*Traffic Lights Enhancement*" - a mod, originally developed by "slyh" (published on the forum and Paradox under the account name "C2VMTLE"), was abandoned along with many dependent users, including myself. My traffic network was nearly useless without configurable intersections - and after several months without any updates or activity since game version 1.3.3, I created a fork of the TLE mod, which from the beginning became more comprehensive than initially expected, which is why I also directly performed a renaming.

Meanwhile, around the basic framework of the original mod, centered on pure phase and phase cycle editing, a system has grown that is significantly more complex and hopefully can satisfy every traffic nerd, like myself, better and better over time.

Many sleepless nights have already gone into this project and surely more will follow. It's a lot of fun to walk this journey together with you and I'll do my best not to disappoint you!

Great to have you here and that you might want to choose TTE, or have already chosen it :)

This is TTE

Traffic Tool Essentials is designed as a meaningful extension of the game in areas where the game itself offers no solutions for existing problems. With currently more than 1800 hours of gameplay, I believe I have a good sense for what can be useful and helpful - simply because I can use it myself.

****The following features are already available:****

Phase Editor

- **Individual Traffic Light Phases:** Create custom signal plans for any intersection.
- **Sequential/Legacy Mode:** Traffic lights cycle through phases either in fixed order or weighted by waiting vehicles.
- **Copy & Paste:** Easily transfer phase settings between different intersections.
- **Delete Confirmation:** Prevents accidental deletion of phases.

Green Wave

- **Group Control:** Combines multiple intersections for synchronized timing.
- **Individual Offsets:** Set precise time offsets between intersections.
- **Real-time Status:** Synchronization status directly visible in the dashboard.
- **Automatic Resynchronization:** Corrects timing deviations immediately and automatically.

Traffic Dashboard

- **24-Hour History:** Traffic flow visualized as a sparkline graph.
- **Real-time Vehicle Count:** Precise data instead of just estimates!
- **Peak Time Analysis:** Display of main traffic times and maximum vehicles per hour.
- **Queue Counter:** Keep track of waiting vehicles.
- **Persistent Data:** All statistics remain even after saving and loading.

Statistics

- **Timer Display:** Overview of current phase durations.
- **Priority Information:** Details on priority switching.
- **Traffic Flow Monitoring:** Analyze throughput in real-time.
- **Lane Utilization:** Track the occupancy of individual lanes.

*****Upcoming Features (Work in Progress)*****

Mobility Hubs

- **Multimodal Nodes:** Unlock the full potential of your traffic network.
- **Park & Ride Integration:** Enable commuters to seamlessly switch from cars to public transit, relieving inner cities.

- **Centralized Transfer Points:** Optimize routing between bus, rail, and individual traffic.

Traffic Management Center (TMC)

- **Holistic Overview:** Monitor individual traffic and public transit.
- **Real-time Network Analysis:** Identify information and problems of the traffic network throughout the city at a glance.
- **Fleet Management:** Track the punctuality of your public transportation live.

Quick-Cycle Templates

- **Phase Templates:** Use predefined standard cycles for common intersection types.
- **One-Click Setup:** Apply complex traffic light phases to any intersection with just one click.
- **Library System:** Create your own best-practice templates and roll them out citywide.

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