

Custom Phase Cycles

Opening the Phase Editor Base Menu (PBM)



TRAFFIC TOOL ESSENTIALS

TRAFFIC OVERVIEW

Ø Throughput ~210 ⓘ

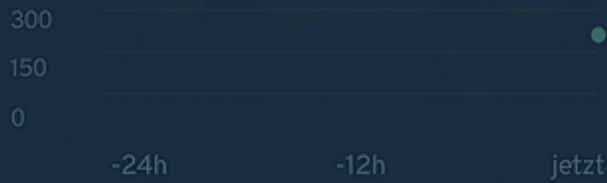
Approaches 3

Incoming Lanes ⓘ 7

Occupied Lanes ⓘ ---



24h Trend (Fz/h)



Select Phase Mode

Vanilla ▲



Vanilla

Options

Split Phasing

Allow Turning on Red

Custom Phase

Give Way to Oncoming Vehicles

Exclusive Pedestrian Phase

Save

- In the **dropdown menu**, set the **phase mode** to "**Custom Phase**"
- Then click on "**Program custom phases**"
- The **base menu** of the Phase Editor **opens**
- Here you can also **change the method** by which **phases are switched**
 - **Priority (Default)**, Switches based on current traffic volume
 - **Sequential (TTE Mode)**, switches through phases in order



****Phase Editor (Base Menu)**** Here you can manage your phases: ****Create**** phases, ****move**** phases, ****edit**** phases, ****delete**** phases, ****copy**** phases and ****paste**** phases

Adding a Phase



Select All

Phase #1



Options

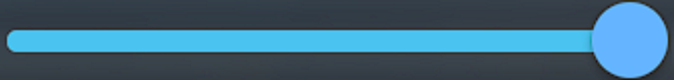
- Prioritize Vehicles
- Prioritize Public Transit
- Prioritize Pedestrians

Adjustments

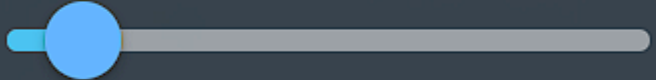
Min. Duration 2s



Max. Duration 300s



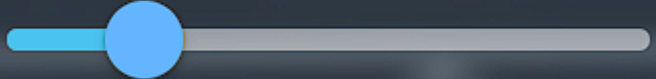
Target Duration 1x



Lane Occupancy 1x



Interval Exponent 2



Add Phase

Back

Statistics

- Click on "**Add Phase**", the phase menu opens immediately
- Set the **parameters of the respective phase** according to your preferences and local requirements
- Also set here **which road users** should be **prioritized** in a phase.
For example, if a tram and individual traffic lane cross in a phase and you have set to prioritize public transit, traffic waits until the tram has passed the intersection



****Parameter Description****

- **Minimum Duration:** The phase must run at least this long, completely independent of whether there is high or low traffic on it
- **Maximum Duration:** The phase may be active for at most this long (e.g., to actively reduce phase duration on lower-traffic arms to favor main traffic directions)
- **Target Duration:** Influences (as one of two factors) the duration of the green phase. 2x = twice as long, etc.
- **Lane Occupancy:** Influences (as the second of two factors) the duration of the green phase, but target-controlled, not in principle like target duration, but ONLY when the lane is actually occupied by vehicles
- **Interval Exponent:** Vehicles and phases that would have to wait a long time are favored in Priority Mode to prevent them from "starving". However, this can be handled more elegantly with the more modern variant (Sequential Mode)

Setting Phase Lane Release

Create multiple phases this way and essentially create an individual heartbeat for each of your important intersections.

- **Create as many phases as you need** to cover all intersection arms and turning lanes at your respective intersection
- Click on the **red icon** of the desired **road user** (cars/bicycles, public transit, pedestrians) to switch the corresponding traffic light from **red to green**
- **Click again** on the same symbol and the color **changes to blue**, which means that
- **Click a third time** to return the symbol to its **default state (RED)**



TIPS

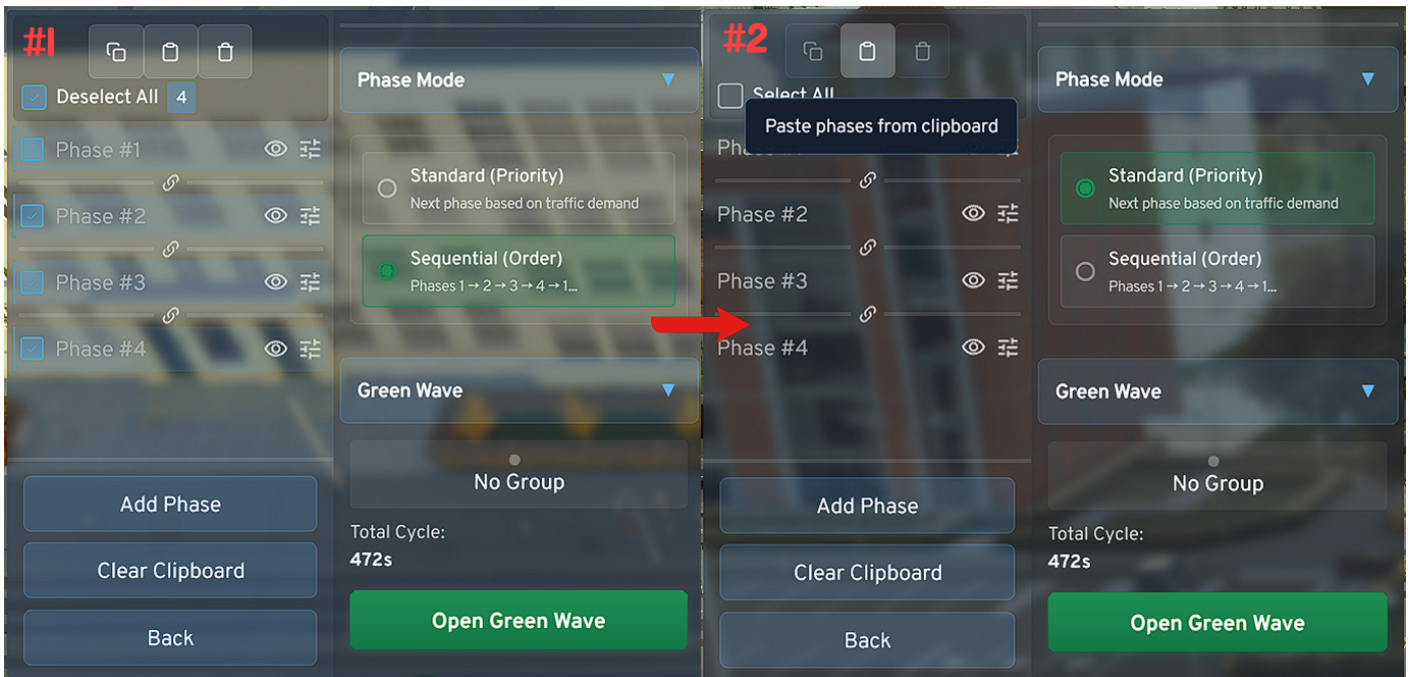
1.: Create a separate pedestrian phase at intersections of major traffic arteries where many pedestrians also appear (most likely in the city center, or on later-planned major bypass roads, etc.)

2.: Important for "Green Wave":

The last phase in the overall cycle should (**only relevant when using the "Green Wave" function**) be an ADDITIONAL "useful phase" - i.e., a phase that transfers traffic on *important routes*, as the last phase is used by the sync system as a *buffer for synchronization* when overall cycle lengths of intersections in a group differ significantly or the number of phases of individual intersections differs too much.

Copying and Pasting Phases

- Click on the **checkbox "Select All"** in the PBM, **top left near the 3 buttons**
- **Adjust** your **selection** if needed
- Click on the **"Copy"** button
- **Switch** to the **PBM of the other intersection** to which you want to **add the phases**
- Click on the **"Paste"** button, *the middle one of the 3 buttons*



Copy/Paste Tool

- The **tool cannot work magic**. For *non-identical intersections* the system will try to transfer as many *signal switches as possible* when copying, but you should *check them again and adjust if necessary*.
- When synchronizing intersections, **when using the "Green Wave" function**, the system can be best optimized when grouped intersections are perfectly aligned using the tool regarding timing settings, i.e., min. duration, max. duration, etc.

Revision #1

Created 2026-01-03 04:31:13 UTC by Zessons

Updated 2026-01-03 04:31:52 UTC by Zessons