vs | studio

The Parameterization-Tool

Is there an efficient way to quickly start the parameterization work in vs | plus? Absolutely, and the solution is vs | studio.

vs | studio is our new tool for quickly and intuitively creating a basic supply and planning and testing a vs | plus control system. It also includes our MAP file generator and many other helpful features to support you in your work as a traffic system planner.

How?

In vs | studio, the basic objects for the controller are entered first, i.e. the topology of the intersection with signal groups, detectors (parallel and serial inputs, as well as call point sequences), one or more signal programs, switch-on and switch-off programs and finally the yearly automatic mechanism. This can be used to create a fixed time control or to implement the so-called basic supply for the controller unit.

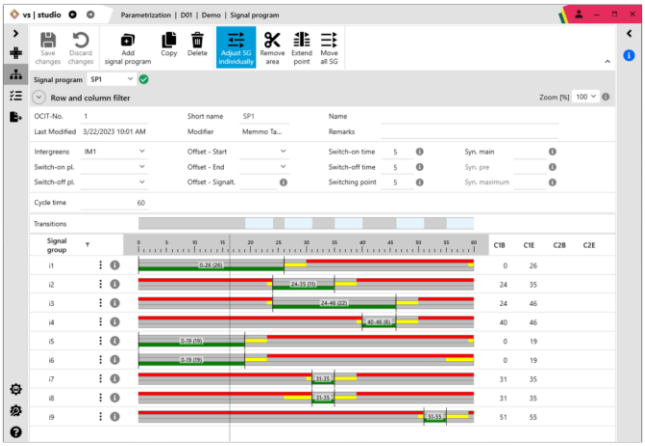
Basic supplies can be created as described above with vs | studio, our classic tool vs | workSuite or alternatively with third-party software. Our tools have an interface that can read OCIT files, which enables seamless integration and further fine-tuning of the control system.

The strengths of vs | studio then come into their own during the actual planning work. A robust, executable, fully or partially traffic-dependent vs | plus control can be created from the basic supply. And all this in just a few minutes!

We currently offer three different flavors, each tailored to the different needs of the user.

vs | studio cherry

This is the first evolution stage of vs | studio. The aim is to enable vs | plus beginners to get started with traffic-dependent control of intersections with vs | plus and professionals to design their first traffic-dependent control solution much faster.



The basis for vs | studio cherry is a fixed-time control (in the form of an OCIT supply file). You import this into vs | studio cherry. You then set the priority of public transport vehicles over private transport and among public transport vehicles. You also select how the control system should behave in relation to pedestrians, and finally the desired degree of traffic dependency for all road users. You can achieve all this by ticking a few checkboxes. The rest is done by vs | studio and the traffic algorithm it contains. As

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a result, vs | studio delivers a traffic-dependent supply in vs | plus, which can be tested immediately in the test bench.

There are no complex tables to fill in or programming knowledge required. All you need to do is add your fixed time planning with your traffic-dependent requirements to the intersection. See for yourself, vs | studio cherry is available free of charge!

vs | studio kiwi

The "kiwi" flavour is the second evolution stage of vs | studio. It contains the same functionalities as the "cherry" flavor plus additional enhancements.

The most important extension of vs | studio kiwi compared to the cherry flavor is the ability to enter a basic supply. In vs | studio kiwi, you can plan a traffic signal system from scratch with outputs (e.g. signal groups, intergreen times, offsets, etc.), inputs (e.g. parallel and serial inputs, call point sequences, etc.) and signal programs. This basic supply can then be converted into a fully executable vs | plus control using the vs | plus wizard built into vs | studio.

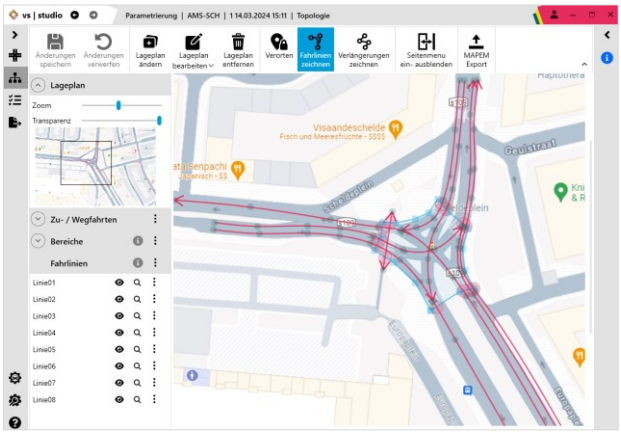
With vs | studio kiwi, you can create a basic supply yourself in no time at all and are not dependent on an OCIT supply file.

vs | studio mango

The development of the mango flavour is already in full swing, but the development has yet to be completed, which means that the final design may still be subject to adjustments.
This product will have the same functions as kiwi and will also allow fine-tuning of the vs | plus parameters. This means that all parameters known in the classic vs | workSuite can either be entered manually or the default values previously calculated by the vs | plus wizard can be adjusted. In addition, the modules formerly known as add-ons such as open vs | plus, VMod and others will be included. With vs | studio mango, the classic parameterization tool vs | workSuite will be replaced and the user experience will be significantly improved.

MAP Files

MAP files can be created in vs | studio in accordance with the DiMAP guide and C-ROADS manual. These MAP files are supplied to the control unit during operation with vs | plus and then forwarded to the corresponding RSU (Roadside Unit) at runtime. The RSU itself will finally send these MAPs to requesting vehicles, where they can then be used, for example, for autonomous driving, optimized switching of traffic lights, etc.



Benefits of vs | studio

- The speed and efficiency with which you design new control systems is significantly increased.
- New versions or updates of vs | studio are made possible by online deployment. As soon as a new version is available, you are informed in the application and can update your installation automatically.
- Our vs | plus products are characterized by their openness and independence from specific planning philosophies and tools from other manufacturers.
- Whether traffic-dependent full or partial control, signal group or phase-oriented management or the prioritization of public transport - the user retains flexibility at all times. Your way of working will change positively, and you will be supported in your work.

To summarize, vs | studio serves as a gateway for the efficient creation of traffic-dependent vs | plus controls, aimed at users with different levels of expertise.

For more information or interest in vs | studio, please do not hesitate to contact us.

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