

vs | plus

The independent control method

The traffic-dependent control system, standardized for all manufacturers and controllers

Since more than 30 years vs | plus runs on the control devices of many manufacturers and fulfills multiple customer requirements by continuously integrating important functions into the core of vs | plus.

The **traffic-dependent control** method vs | plus is suitable for fully traffic-dependent stand-alone systems and for coordinated networks with partial traffic dependency. Its framework plan technology qualifies vs | plus especially for adaptive **network control procedures**.

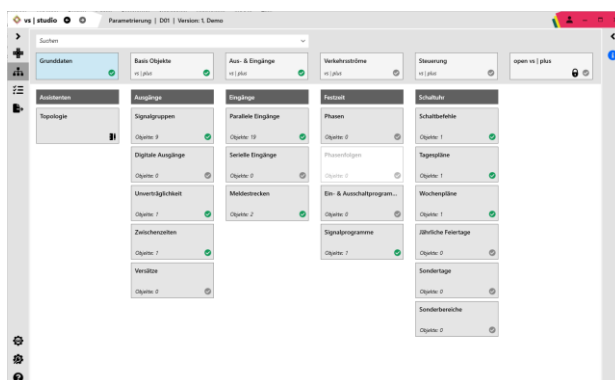
Thanks to its parameter-based design, vs | plus is particularly economical to use and always logical. A vs | plus control can be adapted to changing traffic conditions at any time - even by different planning engineers. Compared to other methods, maintenance of the control is very simple. You are able to make modifications **independently of the controller manufacturer** and without specific programming knowledge.

A particular strength of vs | plus is its functionality for **facilitating and accelerating public transport**. With its high degree of flexibility, a wide range of traffic-related requirements can be implemented. Depending on the situation, cyclists, pedestrians, public transport, or even private transport can be prioritized. In addition, vs | plus has intelligent options for prioritizing emergency vehicles. This is based on the vs | plus traffic streams, which can be prioritized differently and also dynamically adapted to the traffic situation.

Parameterization

With the classic traffic engineer workplace vs | workSuite or the new vs | studio, vs | plus provides an integrative, user-friendly planning, development, and test environment. This allows the traffic engineer to plan, develop, parameterize, and fully test the control directly at his desk using a computer.

The forecasting tool vs | edge, which is currently under development, is the final building block for innovative, intelligent, and predictive control.



With the support of our tools, the traffic planner can develop a classic fixed-time control based on the site plan. From this, you can automatically derive an initial, fully functional vs | plus control solution and put it into operation.



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Cooperative Intelligent Transport Systems (C-ITS)

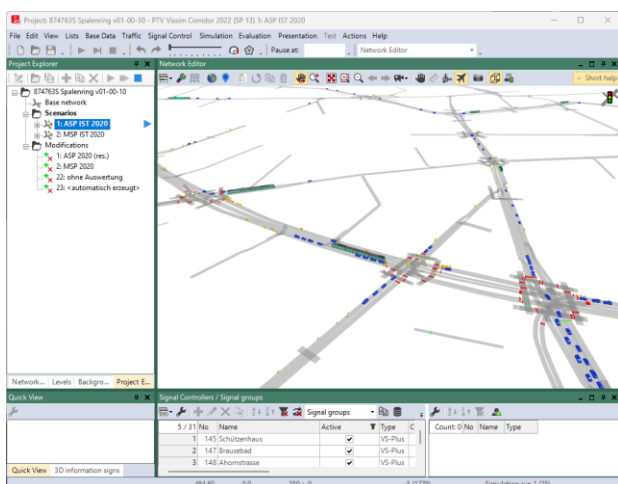
vs | plus is also present in cutting-edge environments and innovative system environments.

As part of cooperative intelligent traffic systems, interconnected road users and the traffic infrastructure exchange digital messages about traffic events and the status of infrastructure and vehicles.

vs | plus supports this communication to increase traffic safety and optimize traffic flow from version vs | plus G2.

Simulation with PTV Vissim / Aimsun

With vs | mate we offer the possibility to simulate the traffic-dependent vs | plus controls on a PC and a simulation tool. This enables automated load simulations to be performed. Since the same vs | plus core is used in vs | mate as in the control unit on the road, the simulation is an exact reflection of reality in the field.



Ongoing development

vs | plus and its tool package vs | studio are subject to constant ongoing development. The consistent use of vs | plus not only guarantees a high level of traffic engineering quality, but also enables economical operation through manufacturer independence and the standardized application of procedures in administration and planning departments. There are now a whole range of highly trained traffic planners who have a wealth of experience in planning the optimum control for every intersection.

Which devices does vs | plus run on?

Before vs | plus can run on a specific controller, vs | plus must be implemented on the controller. We support all manufacturers in these steps and intensively test the interface between vs | plus and the controller together with the manufacturer. If the tests are successful, we issue a certificate confirming conformity with vs | plus. Certification is carried out once per control unit type. The following list contains all certified manufacturers:

- AVT-Stoye
- Bergauer
- Cross
- Kummler+Matter
- Stührenberg GmbH
- Swarco
- VRAG
- Yunex

An up-to-date list is always available on our website.

Now, and in the future?

In version 8, we improved the detector interference function. In version 9, we introduced two new modules: "Demand systems" and "Remaining time display". In the latest version, release 9.1, we have increased the maximum number of traffic streams to 96. vs | plus is constantly evolving to meet the ever-increasing demands.

Next, we are making a radical change and will completely renew vs | plus step by step. We are therefore no longer talking about a new version, but about a new generation: vs | plus G2.

What will be different in G2? G2 is designed to optimally process the world of digital inputs. With G2, we can not only process SREM and SSEM messages precisely, but also enable virtual detectors and integrate numerous other innovative functions.

vs | plus continues to act as a gateway for the development of intelligent, traffic-dependent traffic control systems that are perfectly tailored to the requirements of modern traffic systems. We are ready for the future of traffic - are you?

For further insights or interest in vs | plus, please do not hesitate to contact us.

Contact us today to find out more!

