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SINETPLAN

Siemens Network Planner

Simulation of PROFINET networks

[siemens.com/sinetplan](https://www.siemens.com/sinetplan)

Big Data is on everyone's lips these days – with substantial effects on communication networks. Not only are such networks becoming more and more complex – they are also reaching their capacity limits increasingly often because new applications generate ever greater data volumes, at more frequent intervals, and this data has to be transported. SINETPLAN, the new network planning software from Siemens, has the task of responding to these challenges quickly and cost effectively.

The challenge:

Ever increasing demands

Industrie 4.0 has been a feature of the production sector for some time, at least when it comes to data: The complexity of industrial networks is constantly increasing because connectivity is required from the sensor all the way to the cloud. The downside: Incorrectly planned networks can quickly reach their limits

here if the data volumes have not been taken into account as early as in the planning phase. In the worst case, such bottlenecks in data traffic even result in the failure of devices and segments so that larger production sections could be affected. One of the main tasks of predictive network planning is to correctly assess the available network resources to enable sound decisions to be made about how to proceed.



The solution:

SINETPLAN from Siemens

SINETPLAN, the Siemens Network Planner, supports you in planning automation systems and networks based on PROFINET. The tool facilitates professional and predictive dimensioning of your PROFINET installation as early as in the planning stage. Its second main task is to provide you with the best support for optimizing your network so that you can make the best possible use of network resources and factor in reserves.

Thus, problems in commissioning or failures during productive operation can be prevented in advance with planning. This increases the availability of the production plant and helps improve operational safety.

With the new version of SINETPLAN, existing STEP 7 projects can also be imported and simulated from the TIA Portal.



Transparent network performance at all times



Network analysis with use of available resources



Topology view with detailed information

The advantages at a glance:

- **Import and simulation** of existing STEP 7 projects from the TIA Portal (> V14)
- **Network optimization** thanks to port-selective calculation of the network load
- **Increased production availability** thanks to online scan and verification of existing systems
- **Transparency** before commissioning thanks to simulation of the network load of imported STEP 7 projects
- **Efficiency** through securing existing investment in the long term and optimal exploitation of resources
- **Extension** of the integrated product catalog and a detailed mapping of the device behavior of integrated devices during simulation

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