

Hanover, April 1, 2019

Hannover Messe 2019, Hall 9, Booth D35

Software update for planning and simulation tool

- **Integration into the digital workflow with data exchange via AutomationML**
- **Import and simulation of existing TIA Portal projects V15.1**
- **Configuration option of modular switches**
- **Simulation of broadcast with definition of broadcast limits**

Siemens is launching a new version of the software tool for planning and simulating Profinet automation networks on the market. Sinetplan V2.0, the Siemens network planner, supports plant planners, builders and operators of automation systems and Profinet networks already in the planning phase and facilitates the professional and proactive simulation of a plant network. At the Hannover Messe 2019, Siemens is exhibiting the new features with which Sinetplan V2.0 is integrated into the digital planning and engineering workflow.

The new software provides the user with efficient network planning and validation – configuration data of a planned automation plant can be imported from ECAD systems (Electronic Computer-Aided Design) or the TIA Selection Tool using the “AutomationML” (Automation Markup Language) data exchange format. After simulating the network nodes, the network load and a possible adaptation an export via “AutomationML” for further processing e.g. in the TIA Portal is available. This ensures planning reliability and fail-safety even during times of rapidly increasing data quantities. Sinetplan V2.0 enables additional existing TIA Portal projects V15.1 to be imported and simulated and modular switches to be configured. Sinetplan V2.0 provides a transparent, virtual representation of the planned network and opens up new opportunities for optimizing the network, utilizing network resources in the best possible way, and planning reserve capacities. Commissioning problems and failures during productive operation to thus be avoided. This increases production availability and contributes toward improving operational safety.

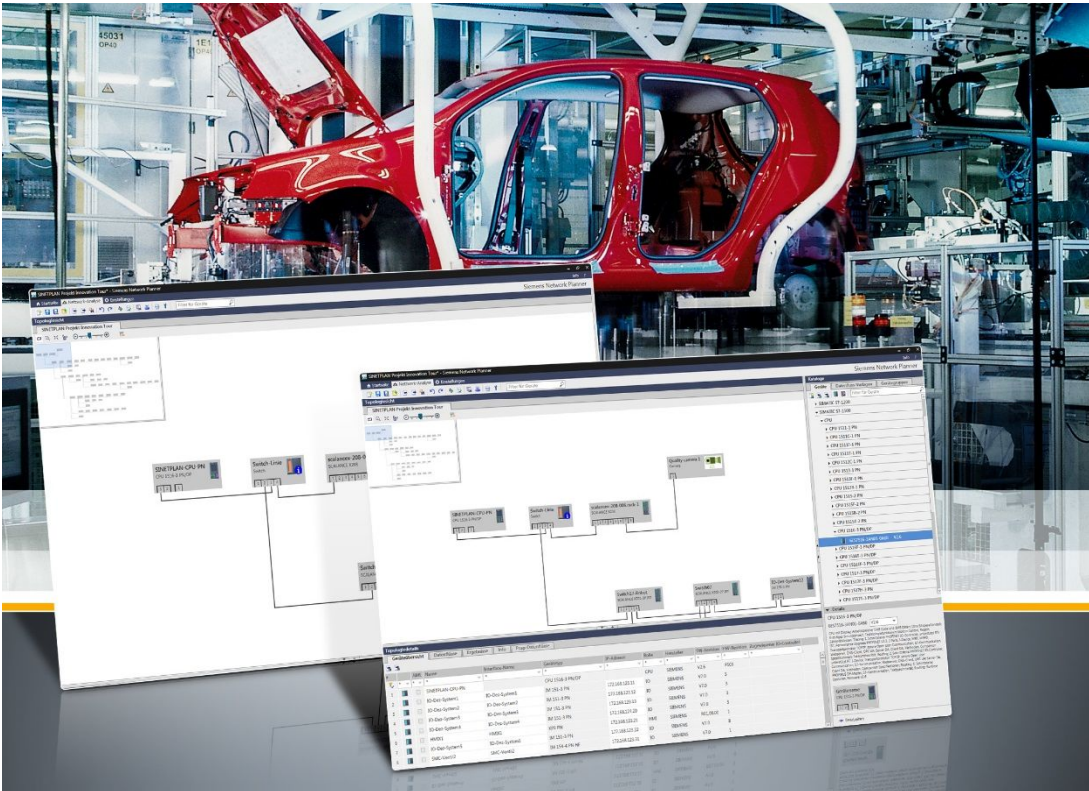
Sinetplan V2.0 offers the option of documenting the simulation to make the acceptance of the plant more transparent.

Background information

Digitalization and simulation are becoming ever more important in the automation environment. The advantages are obvious when commissioning a virtual plant before it becomes a reality. This applies both to a virtual product and to the digital twin of automation sequences.

As both networking and data volumes are significantly increasing to an equal extent in this context, it is of crucial importance to map the communication virtually instead of having to make costly structural changes to the real plant at a later date.

A flawed design or overload of a Profinet network can lead to impairment of the entire application and, in the worst case, to production losses. The Sinetplan network planner from Siemens enables a Profinet network to be tested for operational reliability during the planning phase: To check whether a network has a suitable topological structure, what reserves the selected topological structure offers, and how the network can be protected against unforeseeable peak loads (bursts). The tool also calculates the network utilization during time-critical, cyclic Profinet IO data traffic as well as acyclic, TCP/IP-based data traffic from, for example, remotely operated servers, cameras, PCs, or web server accesses. According to the topology and the connected network nodes, the network loads are simulated and critical points where the network utilization is too high are indicated. For example, it calculates worst case queue assignments of the ports and the connections. The network topology can then be replanned and a new simulation started with minimal effort. The results of the calculation and simulation can be saved in a detailed report.



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You can find this press release and a photo material at

www.siemens.com/press/PR2019040195DIEN

You can find further information at www.siemens.com/sinetplan

Find further information about Siemens at the Hannover Messe 2019 at:

www.siemens.com/press/hm19 and www.siemens.com/hannovermesse

Contact for journalists

Andreas Friedrich

Phone: +49 1522 210-3967; E-mail: friedrich@siemens.comFollow us on **Social Media****Twitter:** www.twitter.com/siemens_press and www.twitter.com/SiemensIndustry**Blog:** <https://blogs.siemens.com/mediaservice-industries-en>

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