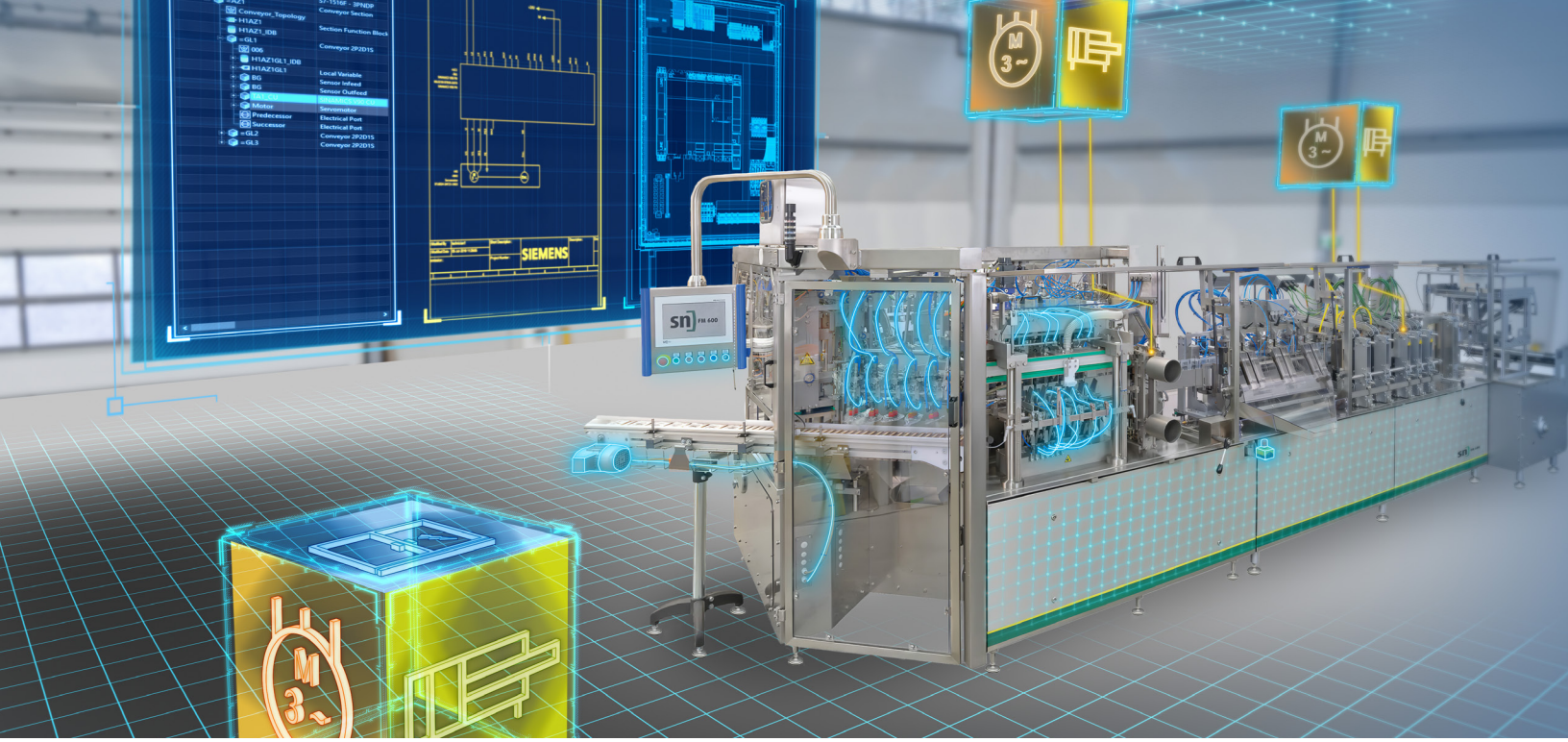

DIGITAL INDUSTRIES SOFTWARE

What's new in NX Industrial Electrical Design

Using multidisciplinary collaboration to improve engineering quality and reduce engineering time

Benefits

- Use multidisciplinary collaboration to improve engineering quality and reduce engineering time
- Increase consistency with one electrical data model
- Support modularization and standards with modular, functional design of equipment
- Embrace re-use to reduce smart electrical engineering reduce efforts
- Deliver faster time-to-market due to shorter engineering change cycles
- Reduce ownership and IT maintenance costs by using out-of-the-box software

Summary

NX™ Industrial Electrical Design software provides a central application for industrial electrical and automation design. This enables production systems manufacturers to manage design complexity, shorten development lifecycles and increase the quality of their designs. Integrating Teamcenter® software for product lifecycle management (PLM) and the entire NX design software portfolio with this product provides a unified multidisciplinary design environment for production systems engineering.

NX and Teamcenter are part of the Xcelerator™ portfolio, the comprehensive and integrated portfolio of software and services from Siemens Digital Industries Software.

Highlights of the new release include:

- **Creation of product data 2D symbols with ECLASS import:** Product data in ECLASS format can be imported to the product library, including properties, structures, connections and 2D symbols

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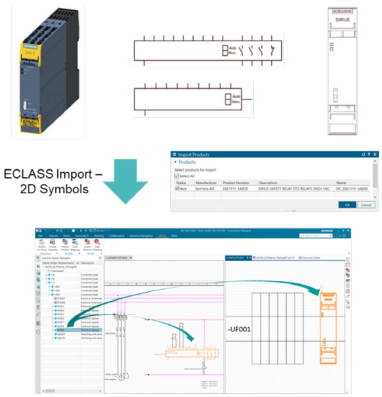
- **Creation of product data with EPLAN® Electric P8 Data Archive Zipped File (EDZ) import:** The EDZ import capability gives easy access to more than 300 manufacturers and to around 1 million products
- **Bill-of-materials (BOM) reporting with the functionality to summarize device and cable lengths:** This enables fast and easy ordering of components from suppliers
- **Export of electrical documentation to DXF/DWG formats:** Export all or selected pages from your electrical project in these 2D formats
- **Dynamic binary logic blocks:** Generate more code and dynamically create binary logic for interlocking and summary bits
- **Export Profinet topologies:** Save time by directly exporting Profinet topologies created in electronic computer-aided design (ECAD) to the Totally Integrated Automated (TIA) Portal without additional effort

The latest release of NX Industrial Electrical Design provide new functions for enhancing equipment efficiency.

Getting started with electrical design can be slowed by gathering product information for off-the-shelf components. The latest release of NX Industrial Electrical Design significantly expands access to existing product data and speeds up product library creation so you can get started with electrical design even faster.

Creating product data 2D symbols with ECLASS import

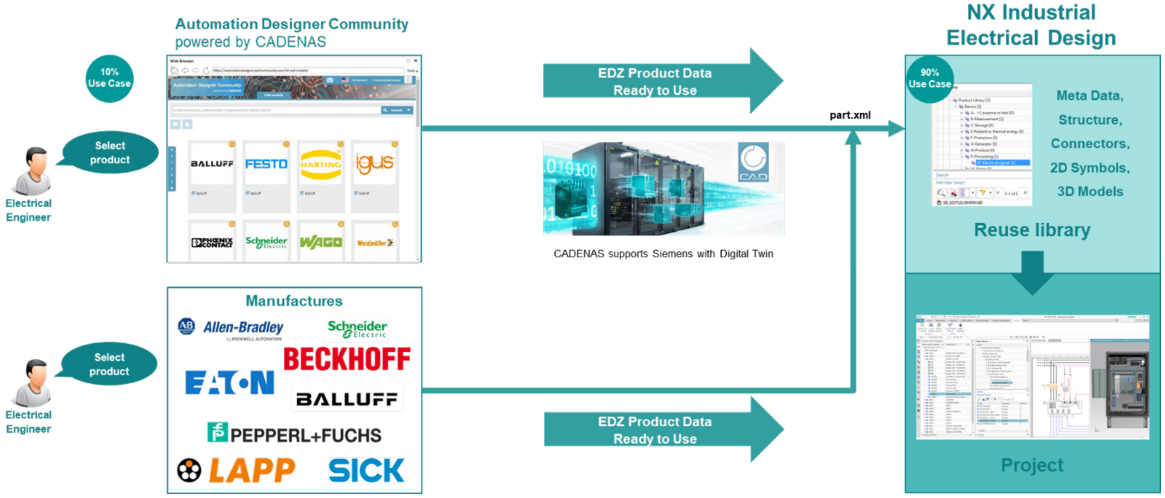
Product data in the ECLASS format can be imported to the product library, including properties, structures, connections and now 2D symbols. The ECLASS import extension significantly reduces the effort to create new products and improves access to vendor-neutral formats.



Creating product data with EDZ import

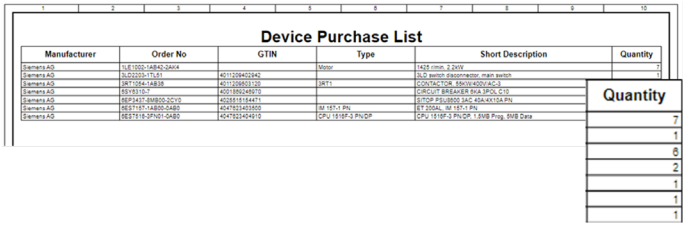
Products in EDZ format can be imported into the product library, including properties, structures and connections. The EDZ import capability gives easy access to more than 300 manufacturers and about 1 million products.

Creating documentation and reports is essential for handing over data to downstream personnel so they can complete their tasks properly. Doing so consistently and quickly means avoiding mistakes and saving time. New features in NX Industrial Electrical Design make this possible.



Summarizing device and cable lengths

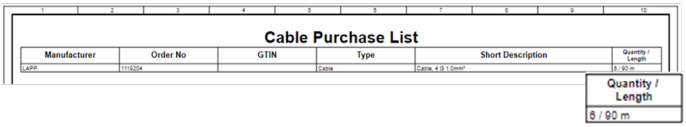
The new release extends existing capabilities to create purchase lists where devices and cable lengths can easily be summarized in the BOM documentation. This enables fast and easy ordering of components from suppliers.



Device Purchase List

Manufacturer	Order No	GTIN	Type	Short Description	Quantity
Siemens AG	1LE1002-1AB42-2AK4		Motor	1425 r/min, 2.2kW	7
Siemens AG	3LD2203-1TL51	4011209402042		3LD switch disconnector, main switch	1
Siemens AG	3RT1044-1AB36	4011209053120	3RT1	CONTACTOR, 55kW/400V/AC-3	
Siemens AG	5SY5310-7	4001856249070		CIRCUIT BREAKER 6kA 3POL C10	
Siemens AG	5EP5437-8MB00-2CY0	4026651154471		SITOP PSU8600 3AC 40A/400A PN	
Siemens AG	6ES7157-1AB00-0AB0	4047623455905	IM 157-1 PN	ET 200AL, IM 157-1 PN	
Siemens AG	6ES7516-3FN01-0AB0	4047623449910	CPU 1516F-3 PN/DP	CPU 1516F-3 PN/DP, 1.5MB Prog, 5MB Data	

Quantity
7
1
6
2
1
1
1



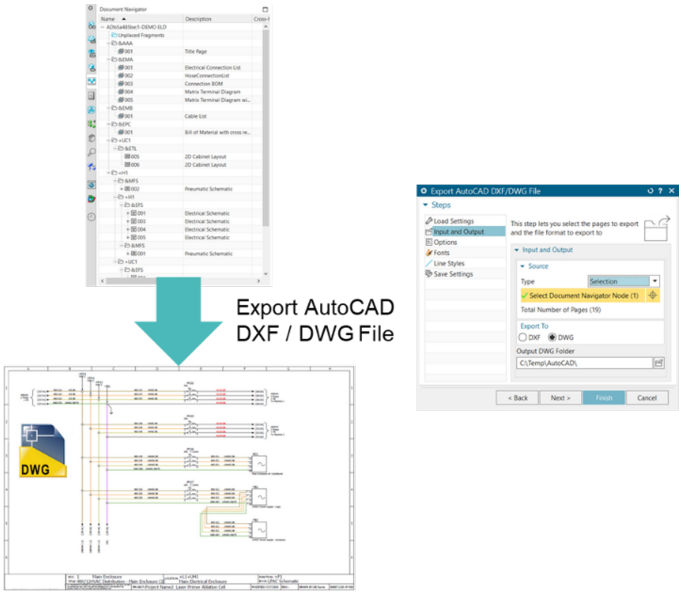
Cable Purchase List

Manufacturer	Order No	GTIN	Type	Short Description	Quantity / Length
LAPP	11192204		Cable	Cable, 4 G 1.5mm²	6 / 90 m

Quantity / Length
6 / 90 m

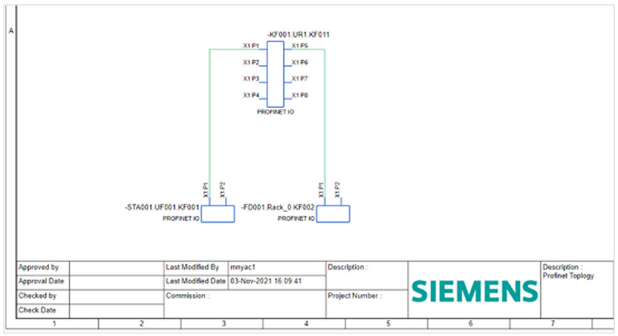
Exporting electrical documentation to DXF/DWG formats

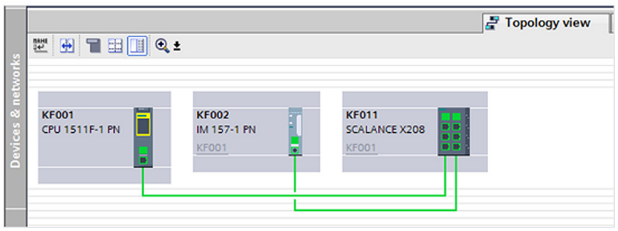
When you are required to deliver documentation in DXF/DWG format, you can now do this with export of the full electrical documentation. Export all or selected pages from your electrical project in these 2D formats.



Dynamic binary logic blocks

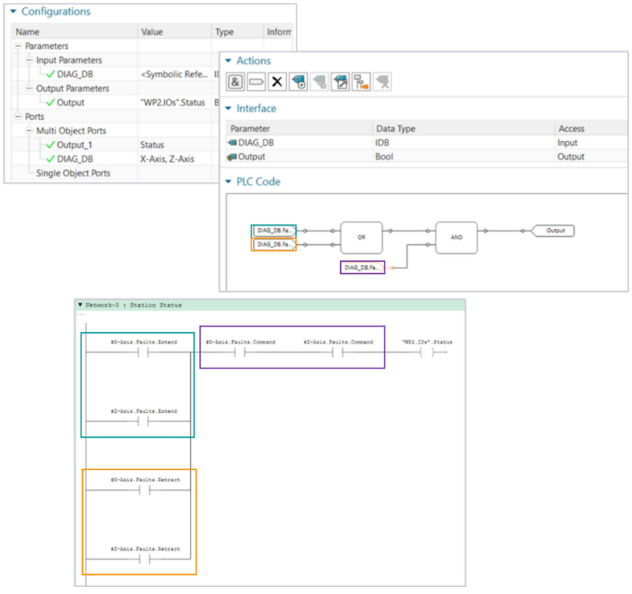
To generate more code and ensure consistency with standards, users can now leverage binary logic blocks to dynamically expand inputs based on functional designs. This allows them to realize interlocking and status summation use cases with rules, eliminating duplicate efforts and enabling ECAD to complete even more tasks for automation.





Export Profinet topologies

The latest release of NX Industrial Electrical Design significantly expands the TIA Portal export capabilities. Now Profinet topologies for automation hardware and equipment can be exported to TIA Portal. This eliminates duplicate work for the automation engineer and provides consistent electrical schematics.



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