



# NX Schematics

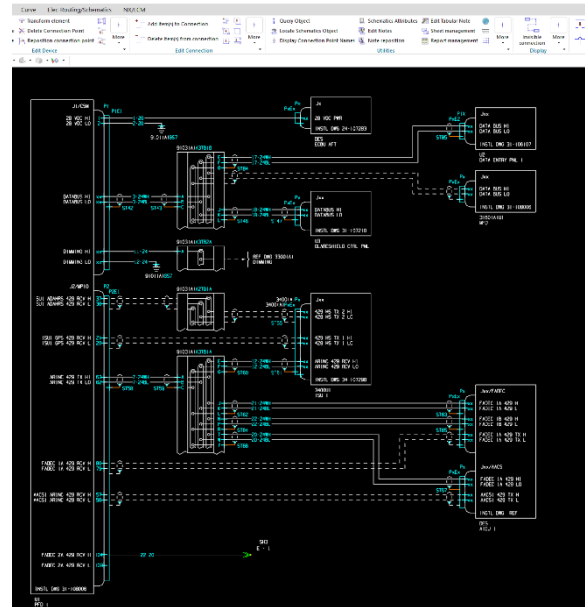
Enabling Physical Design from Logical Design

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## NX Schematics

NX Schematics is an integrated 2D schematic capture application within NX. Utilizing a Schematics module, a Harness Overview module, and a Routing Electrical Interface module, the logical design data can be created, edited, and shared throughout the design process and all within NX. No external applications or files required.

NX Schematics provides a unified approach to multiple disciplines such as electrical (vehicle wiring), electrical (equipment design), piping, tubing, and pneumatics. Functionally, NX Schematics places devices, connects these devices and tracks their connections.



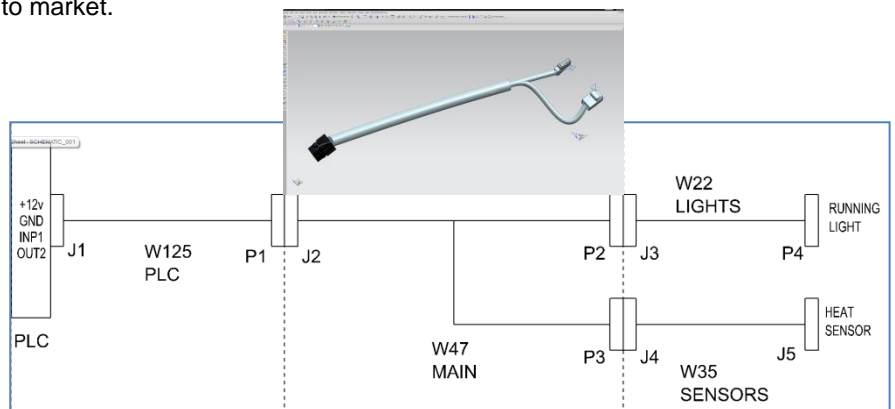
## Benefits

- Generate System / Harness Overview diagrams for top-level design views.
- Create detailed wiring diagrams from the Overview diagrams.
- Directly Place 3D Routing Components from the schematic. No intermediate files required.
- Create Spline Paths in Routing Electrical directly from the Schematic.
- Time and expense of re-creating the logical design can be eliminated, reducing errors, improving efficiencies in the design process and reducing the time to market.
- Utilize design rules to automate wire terminations, wire size, signal tracing, etc.
- Easy-to-use library editing tools allow fast creation of custom libraries for distinct Customer applications, allowing for efficient creation of customer devices and connection types for use in electrical, pneumatic, and tubing applications.
- Time and expense of managing multiple CAD packages can be eliminated because all logical data is created / edited / shared within NX.

## Customers and Applications

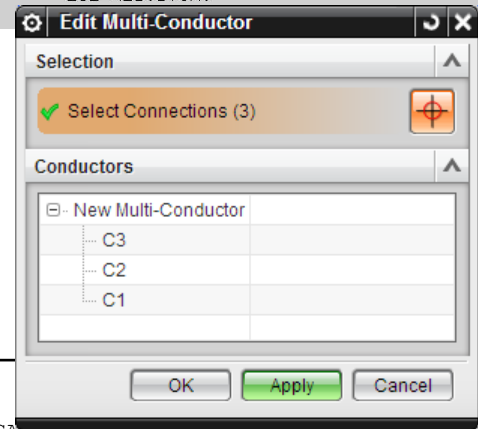
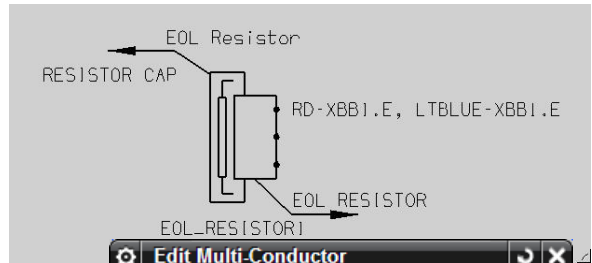
NX Schematics functionality and interoperability with NX makes it an excellent application in aerospace, automotive, and equipment manufacturing industries for:

- Users who Create Electrical and Mechanical Schematics
- Users who need to share and exchange logical data with Routing
- Companies who desire to consolidate their design applications into NX



## Features and Functions

- Runs as a NX application, exchanging logical data directly between the Harness Overview diagram, the Schematic diagram, and the Routing Electrical assembly; compatible with NX Routing applications, providing a logical design companion to NX Routing packages.
- Data is stored within a part file, no Teamcenter customizations or plug-ins required; works out of the box with Teamcenter.
- Define and maintain connectivity between devices, with standard and custom attributes, maintaining this data throughout the complete logical design process.
- Reporting tools compile lists of materials data and connections; Connection lists describe the logical connections between devices; Easy manipulation and formatting of output data for Customer specific requirements.
- Create Devices and Connection Types as custom library items, specific to your design process.
- Design rules allow automatically generated schematics from connection lists or XML data.
- Enhanced features with multiple drawing sheets, offpage connections between drawing sheets, auto – break and auto – join.



BILL OF MATERIALS		
There are 9 different items		
4	SPLICE	CAS100, CAS105, CAS104, CAS200
1 08917373	BATT POS	CA08917373
1 08917374	BATT NEG	CA08917374
1 10098544	DOOR SWITCH 10098544	CL10098544
1 10098547	DOOR SWITCH 10098547	CR10098547
1 12059929	STARTER	CA12059929
1 12064769	10F M/P 150	CA12064769
1 12129068	GENERATOR ASM	CA12129068
2 15300027	ACTUATOR ASM-FRT S/D LOCK L	CA15300027, CR15300027

<b>Devices</b>	NX Part Files, Regular NX Geometry, Connection Points
<b>Connection</b>	Show relationships between devices; Represent wires, cable, tubing; Consist of NX lines; Attach to Connection Points on devices; Connectivity maintained within NX part file
<b>Attributes</b>	Standard; User Defined; Required; Limits; Displayable; with Linked Notes
<b>Reporting</b>	Connection List; Bill of Materials; Custom formats; Filters; Wire Terminations; Connection Diagram
<b>Libraries</b>	Descriptor Files - Define properties; ASCII Text; Create / Modify with Standard Editor; Library Interface; Apply to Existing Schematics; Simple to Create; NX Parts- Standard NX Parts; Team Center or Native; Multiple Languages; Define Connection Points; Create Standalone; Create from geometry on schematic; Connector Wizard
<b>Software</b>	Runs as NX Application; Requires: Gateway, Drafting
<b>Platforms</b>	Windows
<b>NX Compatibility</b>	NX10 and later
<b>Warranty/Support</b>	Standard NX warranty and maintenance; Provided by Siemens PLM Software
<b>Pricing</b>	Contact your Siemens PLM Software Sales Representative
<b>Ordering</b>	Siemens Sales Catalog Number: SI2800