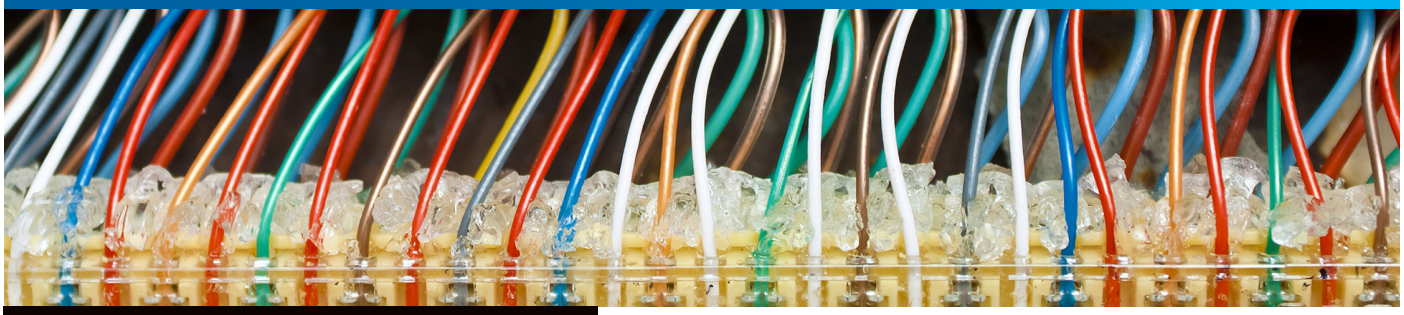

BENEFITS:

- Improve design process – Create telecom devices and equipment.
- Improve reliability – Perform wiring of hubs, routers, multiplexers, and switches.
- Better manage your equipment and wiring – Quickly find the information you need.
- Save time – Automatically generate telecom tag reports, telecom network class, and load reports.

SMARTPLANT® INSTRUMENTATION TELECOM DESIGN

Define and manage telecommunication equipment objects, their connections, and internal configurations with SmartPlant® Instrumentation telecom design functionality.

You can create telecommunication devices and equipment, hubs, routers, multiplexers, and switches.

In addition, you can generate telecom tag reports and load reports. SmartPlant Instrumentation is your solution for:

- CCTV equipment – Telephones, speakers, and IP cameras.
- Network equipment – Hubs, switches, and routers.
- Audio equipment – Amplifier cards.

Workflow

SmartPlant Instrumentation enables you to perform equipment definition or import these definitions from an external source. Define the panels and cables, then configure the system, link all equipment and panels, and define the telecom equipment internal configuration. Next you can install and maintain the system.

Telecom device types

To save time and enforce consistency, you can define the required telecom device type profile for your telecom devices so that the new telecom tag numbers you create will acquire the necessary properties. SmartPlant Instrumentation provides a number of predefined telecom device types that can be modified. You can also add new telecom device types.

Telecom tags

Create new telecom tag numbers and search for telecom tag numbers using telecom functionality. You can also define a telecom tag number profile to set telecom profile defaults for new tag numbers. Choose from a variety of telecom device type profile defaults:

- Specification – You can also copy default specification data from an existing drawing.
- Wiring and I/O.
- Location.
- Miscellaneous.

Configurations

With SmartPlant Instrumentation, you can add Telecom Equipment cards to equipment panels and create:

- Equipment panels.
- Telecom field devices.
- Telecom junction boxes.

For each of these actions, if the new item is going to have a frequently used configuration, you can copy it to create numerous such items on the fly.

Create telecom cables

Creating new cables is easy with SmartPlant Instrumentation. Simply select an existing cable configuration that includes a particular arrangement of wire sets to be built with the cable. You can add additional wires to that cable if required. As a time saver, you can create defaults for the cable and wire arrangements you intend to use frequently.

You can even create custom cables such as fiber optic cables.

Equipment cards

After creating an equipment panel, you can add new telecom equipment cards as required. An equipment card (card with a plug) is created using the Plug-and-Socket wizard. You can also:

- Define equipment card internal cross wiring.
- Connect a telecom cable with an equipment card.
- Generate a connection report.

Documenting the configuration

SmartPlant Instrumentation's Enhanced SmartLoop (ESL) functionality helps you automatically create wiring and system diagrams. With SmartPlant Instrumentation and ESL installed on your local machine, you can create amplifiers and single speaker wiring reports.

Other functionality

SmartPlant Instrumentation enables you to define telecom line numbers, input and edit field equipment data, and set telecom signal levels. You can also define equipment panel network classes and display channel data.

Reports

Generate appropriate reports, including actual load, speaker load, telecom line number, and telecom field equipment. You can also create signal level, equipment panel sub-systems, telecom device type reports, and telecommunication device lists.

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