

## Creo Cabling Extension Adoption Package

A summary of expected benefits includes:

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- Increase user knowledge base
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- Create electronic information flow that can be accessed anytime.
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- Minimize errors when transferring data between systems
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- Clear documentation of process and designs
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- Extract information to other groups such as marketing, sales, and manufacturing.

The adoption package for Creo Cabling Extension (formerly Pro/CABLING) is broken up into three separate phases, Foundation, User Training and Mentoring.

{mospagebreak title=I: CABLING Extension Foundation}Phase I Creo Cabling Extension Foundation (36 hrs)

The first phase of the Cabling Adoption Package will focus on developing the Routed System foundation. This is the single most critical task for a successful implementation. During the foundation development, we will define the naming requirements, data management requirements, library structure, and processes. The primary objective of this phase will be to define how the user will work within the Routed System Options (RSO). The standards developed can be leveraged in production for the pilot project. This Phase only contains the foundation items for Cabling Extension implementation only. Creo Schematics (formerly Routed System Designer) which is a 2D schematic package that can drive Cabling Extension, can be implemented in conjunction.

Activities included in a RSO Foundation are the following:

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- Assess the design and documentation requirements and current process associated with schematic diagram drawings, cable designs, and harness manufacturing drawings to determine the plan for leveraging RSO.
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- Created pro\_std structure for routed systems. Add folders for symbols, spools, tables, etc.
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- Add cabling configuration options, mapkeys and customized menus.
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- Establish the specifications for developing the required reusable library items e.g. 3D connector library, wire spools, report tables.
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- Create wire/cables/sheath spool files.
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- Create template drawings and tables
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- Mentor users on library development techniques per previously established specifications in order for the users to complete the library development
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Define measures of success and establish mechanism for capturing metrics

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Documentation on the foundation setup

{mospagebreak title=II: User Training}Phase II: Cabling Extension User Training(24-64 hours)

The second phase of the Cabling Adoption Package is to focus on providing the proper education and implementation assistance.

The following training recommendations will help prepare the users for the proposed development process and pilot project kickoff in Phase III.

To provide customers with price, purchase and location flexibility, as well as to accommodate different learning styles, CeDeL is certified to deliver PTC classes onsite or develop custom classes. Note: PTC classes must be booked through PTC and Cassandra Kemp must be requested as an instructor.

PTC Training

Prerequisites: Introduction to Creo Parametric + 40 hours hands-on time\*

Modeling 3-D Electrical Harnesses with Creo Cabling Extension (3 days)

Cabling using PTC Creo (3 days)

CeDeL Custom Training

The students are taught with company specific harness designs. The customize course introduces the users to the company start template, library components and foundation setup such as reports, drawing templates and configurations.

Custom training requires 7 day development and 2 day delivery.

In the custom course, the students will learn the following topics

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Use large assembly management and modeling structure including skeletons and data sharing features with the mechanical Creo Parametric designs

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Define methods to create and assembly connectors and components

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Develop network pathways for auto routing

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Establish best practices for harness design and manufacturing tools

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Document harness drawings and generate report bill of material and wire run lists

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Demonstrate methods for troubleshooting and resolving failures in the harness design

Phase I should be performed before the training class so that the students will have a supporting structure after the course.

{mospagebreak title=III: Project Mentoring}Phase III: Cabling Extension Project Mentoring(40 hours)

Upon completion of the Foundation and Training Development phase, the focus will turn toward executing the design and documentation of the cabling design, and harness drawings associated with the pilot project and developing user capability. The following is a summary of tasks associated with this phase of the project.

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Assess requirements of the pilot project and develop target metrics

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Map areas for improvement from "as-is"and "to-be" process flows

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Establish harness structure and methods for designing concurrently with the mechanical design

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Mentor users on developing pilot project harness

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Document methodologies and techniques as required for future reference.

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Identify areas of potential risks and plan to manage and mitigate risks.

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Post implementation evaluation of process procedure and flow

Please use the [Contact Us](#) link to discuss the details and to arrange when we can begin the process with you.