Creo 2.0 ECAD-MCAD Collaboration with Cadence

Overview

Course Code: WBT-4001-0
Course Length: 2 Hours

In this course, you will work on a graphics card design using ECAD-MCAD Collaboration with Cadence. The graphics card design includes mechanical models created in Creo Parametric and an electrical design created in Cadence Allegro PCB. You will then use ECAD Collaboration to re-use and update the board design and view how changes impact MCAD and ECAD designs. You will then finalize the design by comparing MCAD-ECAD data.

The collaboration example will utilize a sequence of process steps. First, you will setup for ECAD Collaboration with Cadence by starting and configuring each application. Next, you will create an MCAD baseline for ECAD in which you will re-use CAD data from a previous design release. Then, you will import the baseline and propose a change from ECAD to establish a new collaboration state. After which, you will counter-propose the change from MCAD, using design collaboration between ECAD and MCAD. Next, you will finalize design changes from ECAD by validating and responding to a change request. Then, you will perform two synchronization checks, comparing ECAD and MCAD designs for any misalignments. Also in this step, you will utilize cross-selection and cross-probing between the different domains. Finally, as the MCAD user, you can preview any changes in the board design, utilizing cross-preview between Creo Parametric and Creo View.

Course Objectives

- Setup for ECAD collaboration with Cadence
- Create an MCAD baseline for ECAD
- Import the baseline and propose a change from ECAD
- Counter-propose changes from MCAD
- Finalize design changes from ECAD
- Perform ECAD-MCAD synchronization checks
- Preview any changes in the MCAD board design
Prerequisites

• Working knowledge with Creo 2.0 Assemblies
• Working knowledge with Cadence Allegro PCB

Audience

• This course is intended for design engineers, mechanical designers, as well as electrical engineers and printed circuit board designers. People in related roles will also benefit from taking this course.