



# CST SCHEMATIC AND LAYOUT DESIGN REVIEW

Document Requirements Quick Guide

# Schematic Design Review

## Required Documents for Review

### 1. PDF Schematic

- a. Complete and searchable
- b. Preferable if it is non-hierarchical. If only hierarchical is available there might be a delay in completion

### 2. Board File or ISCF Extract

- a. Use to extract Netlists for automation
- b. Component placement or trace routing not required
- c. Reference designators starting with *CNxx* are not allowed. The automation always sees any component which name starts with "CN" as a 2-pin device regardless of the real pinout, causing false violations and graphic viewer captures. Please rename them.

## Supported File Formats

- **Cadence Allegro** (.brd with 16.6, .ISCF\* with 17.2)
- **Cadence OrCAD** (.ISCF)
- **Mentor Graphics DxDesigner** (.ISCF)
- **Zuken CR-5000/CR-8000** (.ISCF)

\*ISCF = Intel Schematic Checking Format – Contact [CST.Services@intel.com](mailto:CST.Services@intel.com) for instructions

**Note:** *Altium Designer, Mentor Board Station, and PADS Logic are not supported*

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# Layout Design Review

## Required Documents for Review

## Supported File Formats

### 1. Completely Routed Board File

- a. No DRCs, no shorts, no un-routed nets
- b. All planes completed
- c. No negative artwork if possible

### 2. Accurate Layer Stack up

- a. This can be a spreadsheet or any file format
- b. Include Dielectric Constants ( $\epsilon_r$  for each layer)
- c. Include Layer Thickness
- d. If manufacturing stack up is not available, the board stack up can be used, but not recommended.

### 3. PDF Schematic

- a. Complete and searchable
- b. Preferable if it is non-hierarchical. If only hierarchical is available there might be a delay in completion.

### – Cadence Allegro (.brd)

- Support enabled for 16.6 and 17.2

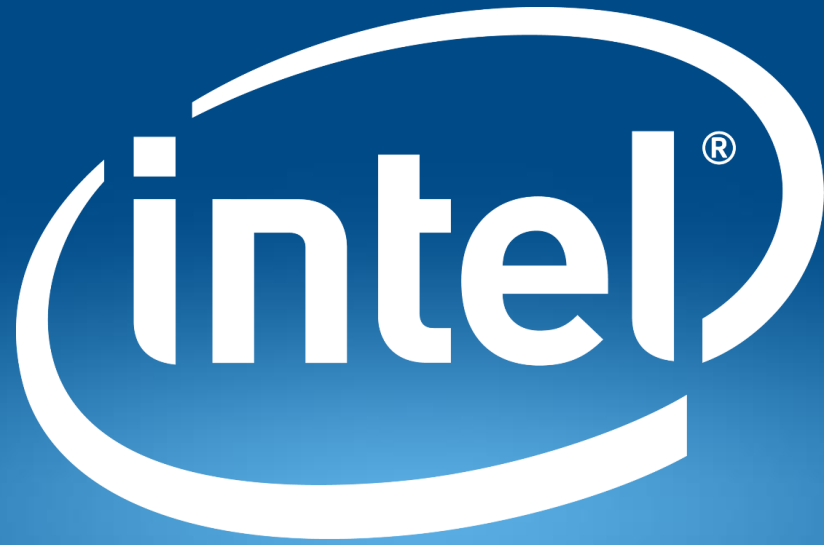
### – Mentor Graphics Xpedition/VX.x (.cibd, .ibd, or .cce)

### – ODB++ (.tgz)

### – Zuken CR-5000/CR-8000 (via ODB++)

### – Altium (.hyp)

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