

# PTC® Live Global

## PART 112 - CCE's Design Automation Tool, EnSuite, speeds up Quoting Process at Global Automotive Chassis Manufacturer

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CCE (Gold Sponsor - Booth #407)

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What we will cover today...

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PTC® PartnerAdvantage  
PLATINUM

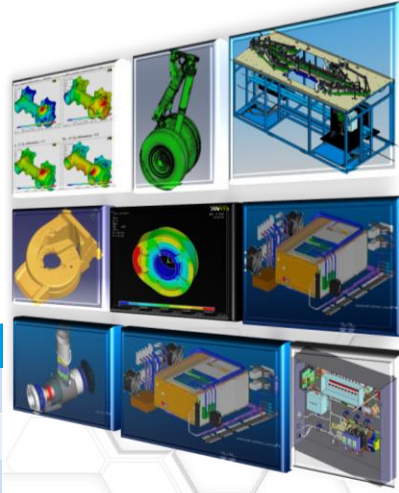
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- CCE Introduction
- What is EnSuite?
- Project Highlights
  - Existing (manual) process
  - Design Automation using EnSuite
  - Savings
- What did we learn

# About Us...

PTC PartnerAdvantage PLATINUM

- Privately held Michigan Corp
- Started in 1989
- MI, NJ and Chennai (India)
- 220+ employees
- Roots in CAD interoperability
- PTC Platinum Partner since 2000
- Engineering Design since 2001
- Manufacturing since 2009
- ISO 9001:2008 certified



## Industries Served

Transportation	Appliance	Ind. Machinery
HVAC	Semiconductor	Aerospace
Pool products	Oil & Gas	Home improvement

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# What is EnSuite?

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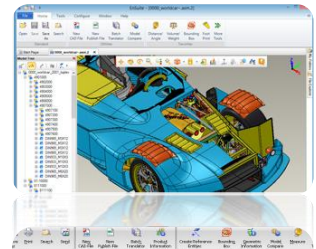
- Solution to leverage multi-CAD data across the enterprise



- Multi-CAD viewer
- All CAD formats
- Product Structure
- Annotations/PMI
- Attributes



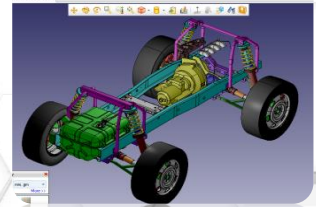
- Compare Parts
- Measure (geom & features)
- De-feature
- Interference checking
- Geometry simplification
- BOM
- Heterogeneous Assembly



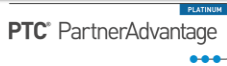
- Data Translators
- Batch Translation
- Native CAD
- Standards
- 3D PDF



- Design Automation Framework
- Custom Productivity Apps

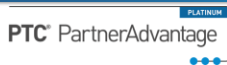


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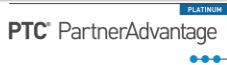
- Global Automotive manufacturer of structural components for light and commercial vehicles
- Products include chassis frames, suspension modules, engine cradles, body structures etc.
- Presence in Argentina, Australia, Brazil, China, Germany, India, Japan, Mexico, Thailand, UK (JV), USA and Venezuela
- 8000 employees globally
- Primary design system - PTC Creo

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- Customer was quoting on average 3 programs per month to automotive OEMs.
- Manual process required engineers 500+ hours a month to gather information
- Information was then populated into a spreadsheet for process, cost and timing quotations.

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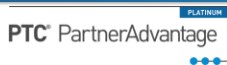


1. Open files in PTC Creo
2. Orient the part to get a snapshot in specific view and save as jpg to later import into spreadsheet
3. Extract part information including part number, thickness, volume
4. Calculate weight based on volume and material density
5. Populate estimation/costing spreadsheet

*<Repeat steps 1-5 for 100s of files!!>*

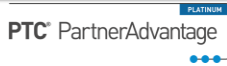
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500+ hours a month

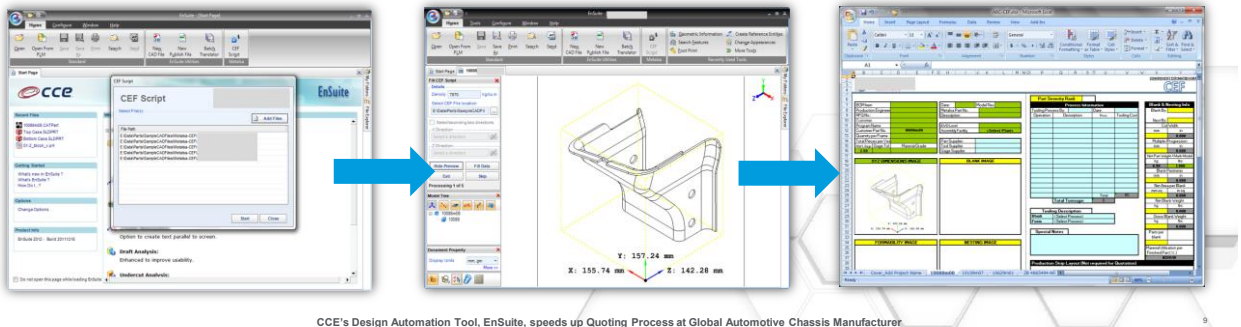


- Distract engineers from other higher value tasks
- Tie up Creo license for non- CAD/engineering tasks
- Time consuming process
- Delay in quoting programs due to bottlenecks

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- CCE created estimation app for customer based on standalone EnSuite framework
- Works with all CAD formats, including PTC Creo (useful for quoting on programs that don't use PTC Creo)
- Extracts ALL the required information from CAD and automatically creates the estimation spreadsheet



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## So, how did it help?



- Reduced quoting process time by 70%
- Removed bottlenecks – lead time reduced by 2 days
- Customer was able to quote more programs
- Freed up engineer's times for core work
- Freed up Creo licenses for more engineering/CAD work
- Customer was able to use single tool to generate quotes for multi-CAD data

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## Moral of the story?

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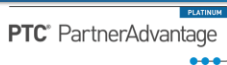
- Always look at identifying repetitive, time-consuming tasks
  - Especially those that are labor intensive
  - Even more those that involve dealing with other groups in the organization
- Ask yourself, is there a way to do this faster?
  - Maybe consider optimizing the process or invest in other tools
- Consider the benefits of doing it faster
  - Useful when you consider the budget/cost for the software/service
- Should I use the tools I have to do this? Should we look outside?
  - Consider what the best use of the tools you have are
  - Consider whether its worth investing in-house resources doing it or looking for specialists
- Go back and review the cost/benefit of the design automation
  - How much time & money did it save you? Was it worth it?

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## Questions?

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