Alison is the lead engineer at an automotive car manufacturer in the US, working on a new model. She's responsible for coordinating design files with Tier 1 suppliers, and to meet her looming launch date she must prevent delays at all costs.

Alisons Tier 1 supplier contacts are Rodney and Caitlyn. Rodney is the lead engineer at the supplier manufacturing the car's seats, and Caitlyn is the lead engineer at the supplier manufacturing the car's dashboard. Both need to prepare, package, and send their CAD data to Alison by the end of the day so she can create the tooling needed for final assembly. There can't be any mistakes!

Alison needs the design data from Rodney and Caitlyn, and it must:

- Meet quality specifications
- Conform to mandated file-naming conventions
- Be delivered as native CATIA v5 files

**Who will get there first?**

**Rodney's Product Design Data Exchange (PDX) Method is entirely manual.**

1. Export
   - Rodney converts his 100-part seat assembly, created in CATIA v5, into native CATIA v5 files, metadata, and supporting documents.
   - Rodney's manager needs to move their weekly team meeting and asks Rodney to take care of the rescheduling before the upcoming launch.

2. Check
   - Rodney finds that some of the files are corrupted, and he needs to spend extra time fixing them. He asks a technical support rep to check the files.

3. Convert
   - Rodney converts his NX assemblies, parts, and drawing files into CATIA v5, renames them, and checks the quality of the results.
   - Rodney tells his manager that he'll be done by the end of the day, but he doesn't realize he spent an entire day on the manual process and still has one task to go.

4. Compress
   - Rodney compresses the package of files to the web portal, and clicks send via the secure web portal.

   **Total time elapsed: 90 minutes.**

   **Elapsed: 5 hours. Rodney has received the package in time, but he knows he will need to spend another 5 hours to fix any errors, and send the revised files.**

**Caitlyn's PDX Method is 100% automated within her PLM System.**

1. Select
   - Caitlyn tells her PDX solution which dashboard assembly to retrieve the files.
   - The system automatically generates a PDX generation job, which includes all the required CATIA v5 files, metadata, and supporting documents.

2. Send
   - When the CAD data is ready for download, Caitlyn sends Alison a link from the secure web portal.

   **Total time elapsed: 5 minutes.**

   **Elapsed: 5 minutes.**

3. Received
   - Alison receives the link and clicks on it.
   - When the CAD data is ready for download, Alison clicks the link.

   **Total time elapsed: 5 minutes.**

   **Elapsed: 5 minutes.**

**STOP!**

4. Compress
   - Rodney compresses the package of files to the web portal, and clicks send via the secure web portal.

**STOP!**

5. Export
   - Rodney starts by exporting his files to CATIA v5, and checks them.

6. Compress
   - Rodney compresses the package of files to the web portal, and clicks send via the secure web portal.

**STOP!**

7. Export
   - Rodney converts his files to CATIA v5, and sends them to Alison.

8. Check
   - Rodney checks that the files are sent.

   **Total time elapsed: 90 minutes.**

   **Elapsed: 90 minutes.**

9. Compress
   - Rodney compresses the package of files to the web portal, and clicks send via the secure web portal.

**STOP!**

10. Export
    - Rodney converts his files to CATIA v5, and sends them to Alison.

**STOP!**

11. Check
    - Rodney checks that the files are sent.

**In total, it took Caitlyn 5 minutes to prepare and send the product design data.**

Alison is satisfied with the process and gives the all-clear to begin testing the seat assembly.

After all of the manual steps required and unexpected interruptions, Rodney gets the all-clear in 5 minutes before the workday ends, which is quite impressive, because her work is delayed. She wonders how Caitlyn can be so responsive and send the product design data insultually, which it takes Rodney a whole day.

The secret to Caitlyn’s success?

She automated her PDX process with Rocket® TRUfusion™ Enterprise.

Take the friction and stress out of collaborative design. Save your engineers valuable time, minimize errors, automate risk. Rocket® TRUfusion™ Enterprise automates the manual Product Design Data Exchange (PDX) process with a single automated process. It’s a simple, cost-effective solution, enabling secure exchanges of CAD files and related product design data within your PLM system.

Learn more about Rocket® TRUfusion™ Enterprise.