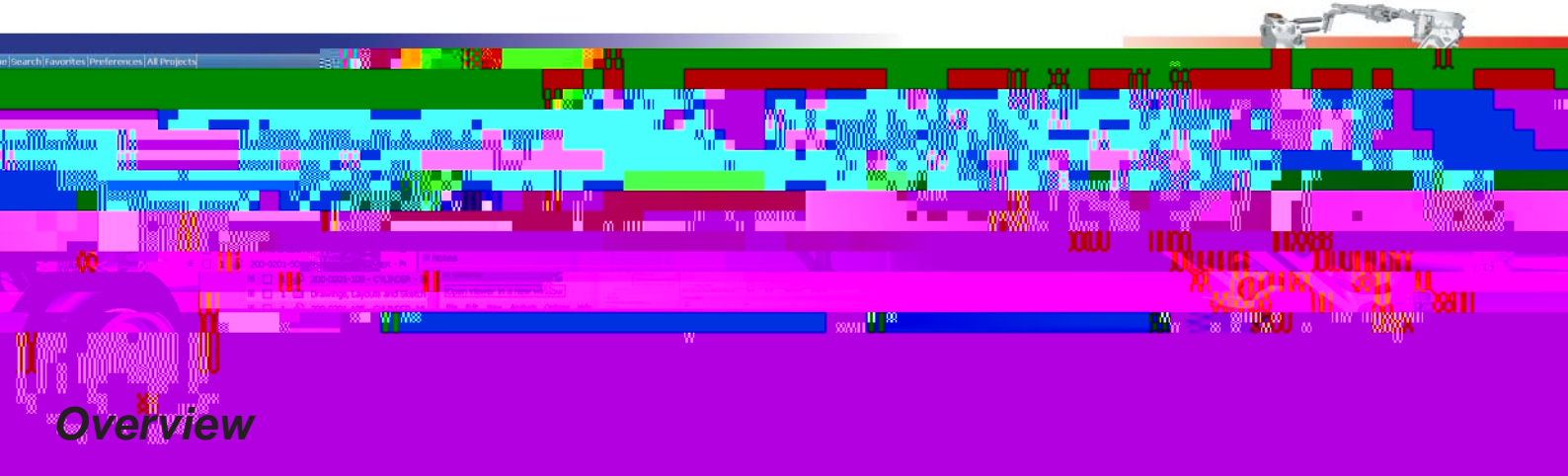


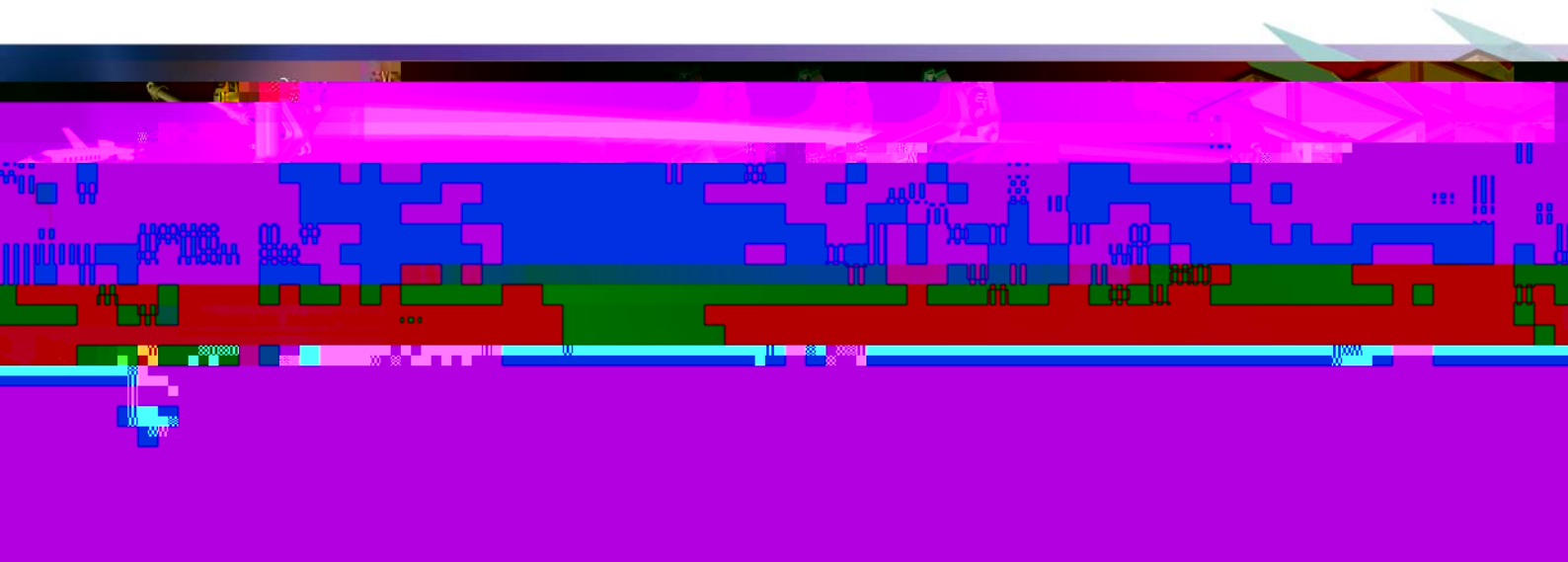
Héroux Devtek

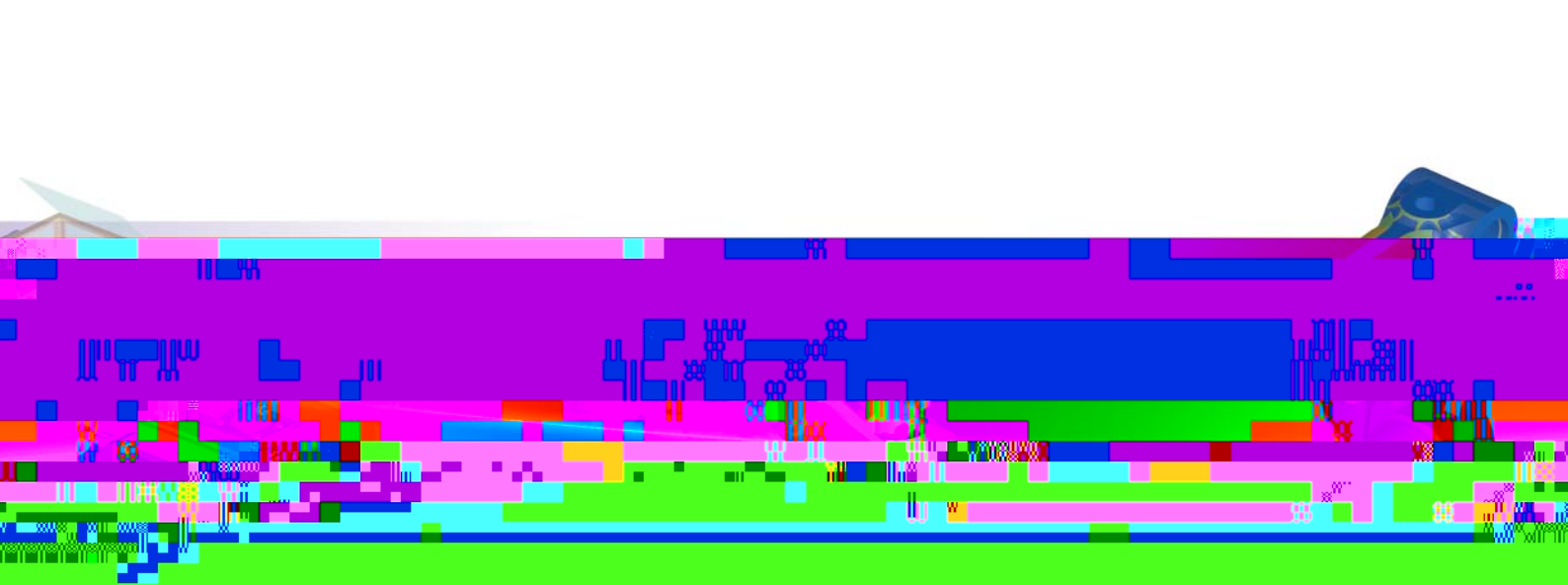
Collaboration with V5 PLM lands better design solutions



Effortless collaboration yields superior products

To create a real-time collaborative environment, Héroux Devtek turned to V5 PLM from Dassault Systèmes, including CATIA V5 and ENOVIA SmarTeam. V5 PLM allows engineering and manufacturing to collaborate virtually in real time.





SmarTeam, everything we produce is in the electronic vault and we can find it in seconds. We know that we will always look very smart to the customer because even if they come and ask for a study we did five years ago, we can retrieve it instantly.”

ENOVIA SmarTeam also is vital to maintaining the detailed records and audit trails required by airline industry regulatory agencies, Homsy said. “The sheer volume and variety of documentation we have is unbelievable because we work with so many different customers. With ENOVIA SmarTeam we know when a document was created, who created it, who made every change along the line, when they made it and why they made it. We don’t have a staff to document for the regulatory agencies like our OEM customers have, but with ENOVIA SmarTeam we don’t need one. It is all done for us automatically.”

CATIA V5 eases collaboration with customers

CATIA V5, which engineering uses to generate the 3D designs it shares with manufacturing via ENOVIA SmarTeam SmartWeb, has become a prerequisite for success in the aerospace industry, Homsy said. “The aerospace industry is practically all on CATIA, so if you don’t have it you may not even be considered for the job,” he said. “We were very happy when CATIA V5 was introduced because it is much more user friendly than CATIA V4 was, much easier to learn, and it gained acceptance with our engineers very quickly.”

Because CATIA V5 has become an industry standard, having it makes working with outside partners significantly easier, Homsy said. Héroux Devtek can take an OEM’s CATIA V5 design and begin working on it immediately, without the delays and difficulties involved in translating data from one format to another. It also can work more closely with OEMs earlier in the design stage, helping them identify cost-saving opportunities and changes that will improve design quality and increase Héroux Devtek’s value-add.

The company’s engineers also appreciate CATIA V5’s surface analysis capabilities, which they use to identify potential flaws in their designs that could interfere with manufacturability.

“In the past, when we were building a 3D model, we were looking first to achieve the needed functionality and then the manufacturability. Now, since CATIA and ENOVIA SmarTeam are more and more ‘team friendly,’ we can achieve those two goals almost concurrently,” said Kemal Aksakal, Engineering Manager. “With CATIA and ENOVIA SmarTeam and the team spirit that is present at Engineering, we have enhanced our competitiveness and are now ready to take up new challenges. With the surface analysis function, the designer can have an idea if a complex surface is changing its shape too much in a short distance, which means it would not be easy to manufacture and would create too many rejected parts. If we find we have a design like that, the analysis program alerts us to smooth the surfaces.”



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Engineering Manager
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Focus on RAND

Héroux Devtek's relationship with RAND, its value-added reseller partner, has been valuable as the company works to create closer collaboration between engineering and manufacturing, Homsy and Aksakal said. "We want to get more of the manufacturing aspect into the engineering team," Homsy said. "We want to be able to speak the manufacturing language in engineering. RAND is helping by providing special CATIA training in NC programming, which Kemal has attended. They also provide all of our support for ENOVIA SmarTeam and CATIA, such as upgrading to new releases."

Aksakal said he values RAND's advice on whether to invest in new products or upgrade to new releases of existing products, as well as RAND's ability to keep him up to date on new products and offerings. "The products that they have suggested have been very valuable, and I like knowing what's coming in the future," Aksakal said. "They also offer us Remote Operations Support, which allows them to connect directly to our system and fix most problems remotely. That is invaluable. I believe in the service that RAND delivers to the point that I have recommended RAND to other customers."

Adding value to the V5 PLM investment

In the future, Aksakal said, he would like to add stress analysis capabilities to the portfolio available to the company's designers. Stress analysis would allow designers to run preliminary stress

calculations to optimize their design before sending it for formal verification. Such capabilities would limit the number of times a stress engineer must review a design, shortening design cycles and allowing specialists to spend more time on their final analysis.

Homsy also sees advantages to expanding the use of ENOVIA SmarTeam to other departments at Héroux Devtek. "Right now, only engineering's data is on ENOVIA SmarTeam, and that's only about 10% to 15% of all corporate documentation," Homsy said. "Ideally, we would like to have everything on ENOVIA SmarTeam, so that we all have access to everyone's data."

Putting all of the company's data in ENOVIA SmarTeam would improve data sharing between divisions, eliminating the lag times spent determining who has the data and shipping CDs back and forth. "We have people who are working full time to keep data up-to-date manually and to audit it to ensure that we have the right data," Homsy said. "We could eliminate that in the other departments, just as we did in engineering, just by adopting ENOVIA SmarTeam throughout the company."

Homsy said he doesn't need complex return-on-investment calculations to know the value of ENOVIA SmarTeam to his business. "There are some things you simply cannot live without," he said. "We cannot live without the data we create. ENOVIA SmarTeam ensures that we do not have to. That is a benefit beyond price, beyond ROI."

EN

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