

Tyco Fire Protection Products

High Tech Case Study



Challenge

Tyco Fire Protection Products needed to provide its new production factory in the Czech Republic with easy access to up-to-date design information.

Solution

The company implemented Dassault Systèmes' 3DEXPERIENCE Platform, including ENOVIA Version 6, to manage its product data and processes and improve collaboration.

Benefits

Access to up-to-date information ensures that only approved products are released for production while 3DLive improves collaboration between the design and manufacturing teams.

Helping to save lives and protect property

Keeping people safe from the destructive forces of a fire calls for proven and effective fire protection equipment. To protect lives and property, over 5 million homes and 2 million commercial businesses around the world put their trust in electronic security and fire protection products and services from Tyco.

Headquartered in the US, Tyco Fire Protection Products (Tyco), a business unit of Tyco International, recently reinforced its global presence with a new factory in Ráječko, Czech Republic. The manufacturing facility increases Tyco's capability to support its European customers.

Prior to 2010, the Ráječko factory was not part of Tyco. It belonged to a manufacturing company producing electronic products for various customers including Tyco. "After our factory in Ráječko was purchased by Tyco, we needed to transition from our older ENOVIA MatrixOne system to Tyco's ENOVIA Version 6 application, part of the 3DEXPERIENCE Platform from Dassault Systèmes," Tomas Protivanek, Engineering Manager at the Ráječko factory explained. "Our experience with MatrixOne was very positive, so it was only natural that we continue with the Dassault Systèmes' application to manage the design information our factory needed for the production of world famous Tyco products."

Rapid deployment

The Ráječko team had to transition to the Platform quickly since Tyco management announced that MatrixOne would no longer be

accessible after three months. "So we had to move fast," Protivanek said. "Everything had to be up and running with the same level of quality and service. Dassault Systèmes' local sales and service partner helped us a lot – they implemented and customized ENOVIA based on our current requirements and protected our know how by transferring our data to the new system. The data represented 8500 components and 4500 different products. Within three months, we were up and running on the new platform," he said.

The Ráječko factory works with a number of R&D departments, including one on site and others in Munich and London. "One of the challenges we faced was that we did not have the same IT installation as each of the other sites," Protivanek said. "For example, they manage their bill of materials with third-party software. Consequently, data has to be exported from this software to an Excel spreadsheet and sent to us in a complete data package that also includes all the drawings and product specifications required for production. "We import this data into ENOVIA using specific applications developed by the Dassault Systèmes' partner and customized to our way of working. It streamlines the process considerably," he said.

At the Ráječko factory, technicians keep track of all product revisions and engineering changes in ENOVIA. The updated bill of materials will eventually be transferred to Tyco's ERP system – SAP – for purchasing and stock management. "In 2012, we will manage engineering change orders as well as our approval processes including role-based workflow management," Protivanek said. "By using the same system to manage our data and the approval process, we will be able to have one single version of the truth and will gain in efficiency."

Data is always up to date and available

Tyco manufacturing personnel access all product data from their desktop. New product introductions (NPIs) are prepared with the



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**Tomas Protivanek, Engineering Manager,
Tyco Fire Protection Products**



Tyco manufacturing facility in Ráječko, Czech Republic

right level of information since they now have access to the most up to date versions at all times. "With everyone accessing the latest product information, we run fewer risks of manufacturing errors," Protivanek said. Product documentation is easily created in Czech based on R&D information stored in the system. "And with ENOVIA 3DLive, virtual meetings are more productive since our engineers, team leaders and technicians can find up to date documents and the latest drawing revisions in real time."

The 3DEXPERIENCE Platform helps Tyco fulfill its goal of helping to save lives and protect property with a broad range of fire protection solutions. "At Tyco, we want our customers to feel comfortable knowing they have a global partner with comprehensive technical knowledge and support resources available to them. We want them to know that our products and services are designed, manufactured and delivered by a business run according to our values, which are integrity, excellence, accountability and teamwork," Tomas Protivanek concluded.

Focus on Tyco Fire Protection Products

Tyco Fire Protection Products, a business unit of Tyco International, is a leading provider of fire protection, detection, and mechanical building construction solutions for commercial, industrial, institutional, governmental, and residential customers.

Products: Fire Detectors, Fire Alarm Systems, Sprinklers and Nozzles, General Purpose Valves, CPVC Pipes and Fittings, Alarm valves and Accessories, Measuring and Electrical Devices, Flexible Hoses, Welding Outlets and Threaded Fittings, Foam Products and Powders

Employees: 450 (CZ)

Headquarters: US

For more information

www.tycofireandsecurity.com



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Dassault Systèmes, the **3DEXPERIENCE** Company, provides business and people with virtual universes to imagine sustainable innovations. Its world-leading solutions transform the way products are designed, produced, and supported. Dassault Systèmes' collaborative solutions foster social innovation, expanding possibilities for the virtual world to improve the real world. The group brings value to over 150,000 customers of all sizes, in all industries, in more than 80 countries. For more information, visit www.3ds.com.

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