



## All-around data security

### PROOM at Maschinenfabrik Reinhausen

- The expectation: complete control over and visibility into project communications – with partners both inside and outside the company.
- Focal points: data security, activity tracking, unique version numbers, and straightforward integration of third-parties.
- On-premise deployment on the customer's own servers.

The ability to respond quickly is not just expected from Reinhausen products – on-load tap-changers for regulating transformers. Engineers have to be able to work quickly and efficiently at all times – and PROOM, PROCAD's data exchange and management solution, is just the tool they need to do so.

### Reliable power supply

The core business of MR is the regulation of power transformers. This is mainly done with the aid of tap changers that adapt the transmission ratio of the primary to the secondary winding to changing load ratios and, combined with additional, innovative products and services, ensure an interruption-free power supply.



**Christian Böger,**  
engineer at Maschinenfabrik Reinhausen

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Due to the increasing integration of renewable energies into the power network, this regulation has an ever-increasing importance on the distribution network level. Here, MR is also able to provide innovative system solutions. With its conceptual design of systems for reactive power compensation and accompanying services, such as network analysis and calculation, the company rounds out its network regulation offerings. Another successful field of activity is in winding fiberglass-reinforced plastic tubes, processing plastic cylinders, and manufacturing composite hollow insulators.

#### Consistent processes

The changers follow a modular design, allowing MR to respond to customer requirements quickly. The communication with suppliers and subsidiaries is a crucial element in the process from proposal to delivery. "Our engineers go through the purchasing department to place requests with our suppliers," explains Christian Böger. "Since we had no formal process in place for this, we developed a number of approaches for the exchange of CAD and other data over the years." The data exchanged includes sensitive data such as CAD models, simulation data – which can be extremely large in volume – or patent specifications. In 2012, MR decided to adopt a uniform definition for its data exchange process and to implement a suitable software package. MR wanted to be able to ensure the security of its data, track all activities, and assign unique version numbers to avoid confusion as to the latest version of a file. The company was also looking for an easy way to integrate third parties into the process – knowing that some solutions require the data exchange partners to run a dedicated server, which would place an unreasonable burden on them. And finally, MR was looking for a solution that provided ease of use at a reasonable price.



VACUTAP VV – the vacuum-switching technology for on-load tap-changers was one of MR's groundbreaking innovations. It is virtually maintenance-free with significantly reduced lifecycle costs and higher availability of the transformer – made by MR, the global leader in the regulation of power transformers.

#### PROOM is the solution

With PROOM, a solution developed by the Karlsruhe, Germany-based system provider PROCAD, MR found just the right solution. PROOM comes with an intuitive web interface that allows its users to set up virtual project rooms. Once they have been set up, project room managers can invite other process stakeholders to join their project rooms, giving them access to the data stored within them.

The solution provides granular access control, allowing MR to grant multiple companies access to the data needed to submit a proposal

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for a specific assembly. They can view their own data, but never their competitors in the same project room or the data they provide.

#### Clear audit trails

PROOM's version management ensures that a file is automatically versioned instead of overwritten when changed by a user. It also provides access and activity logs, allowing MR to track who has done what with a file and when. This comprehensive activity logging and the provision of complete audit trails for every document over its entire life cycle ensure adherence to compliance requirements. The software can be run in the cloud – on PROCAD's Microsoft Azure servers – or on the customer's own servers. "We decided to deploy PROOM on premise," says Böger, "which gives us full control over our data."

#### Intuitive and efficient user experience

The installation was completed within half a day. A project was launched to develop an internal policy for the exchange of data that

now determines the data exchange process in line with MR processes. Today, every step in the process is defined all the way down to the naming of the project rooms. Böger looks back at the introductory phase: "PROOM is rather intuitive, so we didn't have to provide extensive training. The process outlined in the data exchange policy was propagated throughout the organization by our key users. Today, the process is virtually error-free."

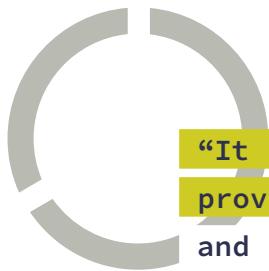
#### From launch to finish

Today, PROOM is used from the proposal stage on. The engineer makes the necessary data available in the project room, while the purchaser invites potential suppliers to the project room where everyone can then engage in the transparent and secure exchange of data. The supplier can download the data, for example CAD models that are mostly exchanged in a neutral data format such as STEP or IGES, and work with it. In case of manufacturing-related changes to these models, the supplier can then use PROOM again to send them back for clarification. If two data exchange partners are working on the same model, PROOM prevents one partner from overwriting the data of the other.

Clients > PROOM PROCAD > Parker Engineering Inc

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Size: 11.00 KB  
Created: 11/22/2016 9:05:22 AM Antonia Ebert  
Modified:  
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High voltage behind the church tower – the headquarters of the family-run company, which was founded in 1868, are located in Reinhausen, Germany, the namesake of the company.

#### **Transparent data exchange**

“The ability to track the flow of data is particularly important to us,” points out Böger. “Our engineers were very pleased with this aspect of working with PROOM. Our purchasers value the visibility it provides into the data of ongoing projects, the solution serves as their data exchange hub.”

#### **Satisfaction all around**

After almost one year of using PROOM, Christian Böger has nothing but praise for the solution: “It has allowed us to improve data security, provide more visibility into our workflows, and implement consistent processes. We achieved all of our goals and everyone is very happy with the solution. We work very closely and have a good relationship with PROCAD. With PROOM, we have found a straightforward, secure, and efficient solution for exchanging data with our suppliers and subsidiaries.”



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