Fast service on the high seas
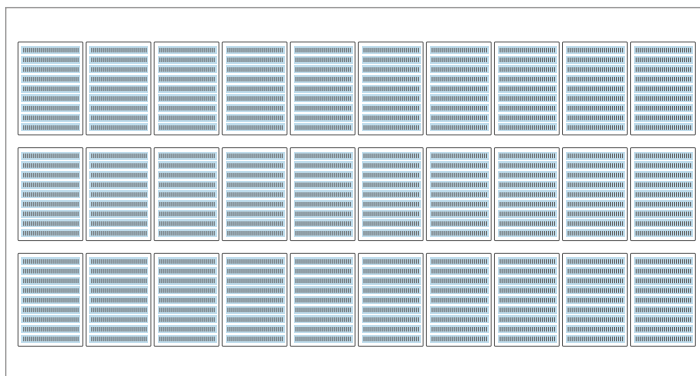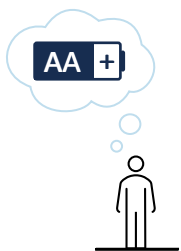
versiondog helps to keep service technicians on top of things around the world

In order to ensure that oil can be extracted on drilling rigs and ships can leave port, Siemens Energy relies on services like AUVESY's versiondog software.

What comes to mind when you think of a battery? Perhaps a normal household battery, like the one you use for your TV remote? Or better yet your car battery. When it comes to power storage at Siemens Energy, batteries take on a

whole new dimension. What the user sitting in central control unit perceives to be an XXL battery is in fact a network of power cells joined together. Depending on energy requirements, there can be up to 30 switch cabinets connected to each other. And that's not all. In each control cabinet, 9 battery modules are connected in a series, and each of these modules are made up of around 28 cells.

And who requires such big packs? The rise of electromobility at sea should make people forget about engines running on diesel and crude oil. At present, there are several ferries sailing the fjords that produce zero emissions; and, on drilling platforms, engines that were designed for peak loads are gradually becoming a thing of the past. The engine units, including switchgear, controls and power supply are manufactured at Siemens Energy in Trondheim. Jan Petersen is a production line engineer at Siemens Energy AS and previously programmed engine software – so he is an expert when it comes to hardware and software. "Ensuring global supervision and accountability requires a comprehensive and uniform source for all projects and versions," explains

There is significantly more power in these batteries than in any household battery. The XXL batteries from Siemens Energy, consist of 9 battery modules with 28 cells connected in a series.

AUVESY.

Jan Petersen,
production engineer
at Siemens Energy AS

„The decision to bring in versiondog was born out of a desire for comprehensive and uniform overview for all projects and versions in production and maintenance.
We also wanted to unify all automation data for all user groups, including our overseas-based technicians, into a single system. These expectations were fully met with the introduction of versiondog."

Siemens Energy's three tips for new versiondog users

1. **Lock your project!**
   Want to make changes? Make sure you lock your project for other users.

2. **Take advantage of automatic tracking**
   Creating versions of your project eliminates the need for loose zip files.

3. **One project tree for everyone**
   Avoid changes to your file structure and ensure that all users can see what they need at a glance by using one project tree.

Did you know?

If a defective hard drive or automation device in production needs to be replaced the backup function of versiondog helps immensely. It allows you to simply replace the hard disk or automation device and restore the last backup. ∎

Jan Petersen. "In this regard, versiondog is a valuable tool that around 300 users at our company benefit from today." versiondog is used for version management for maintenance and change management for automated production. Siemens Energy extensively utilizes both of these functions.

versiondog for the service technician on the go

Maintenance: situations where a service technician is required occur around the globe, and when they do speed is of the essence. The technician gains access to the project by checking it out from the versiondog server in Trondheim and uploading it to their local programming device; in doing so they now have access to the latest engineering version. When the service is complete, the technician simply checks in the new version to the versiondog server. By doing

so all authorized personnel have access to the latest version. Other users can make changes to a project depending on the rights they have been assigned.

Zip files have had their day

Jan Petersen remembers well the challenges that used to occur before versiondog was introduced. "When overseas situations that required a service technician occurred, the service technician used to save their files locally on their computers first. These new versions were not always promptly transferred to the central server and thus to engineering. In the worst case, they were never transferred because the files on the server were forgotten."Looking back, the previous approach does not seem to elicit any feelings of nostalgia, which Petersen confirms. "Everyone sees the advantage of using versiondog instead of

Numbers, data, facts
versiondog at Siemens Energy:

	approx. 300 versiondog users
	3 administrators
	between 30-40 automation devices per project (predominantly Siemens Simatic and Sinamics)
	As of 2021 there are around saved 250 projects
	Primary versiondog functions in use: version control
	Additional functions in use: versiondog FreeCompare (free file compare)

Main reason for using versiondog:
- Complete and comprehensive overview of all projects and versions in use in production and maintenance
- Automation data for diverse user groups available in one centralized system

Check-Out, improve, Check-In – the general conditions for service could not be easier.

zip files." Before versiondog was introduced to Siemens Energy AS, it was possible to save the current software versions in a zip file and then change the date and time. Due to the number of manual entries, this way carried the risk of incorrect entries. The risks associated with this method disappeared with the introduction of versiondog, because versiondog automatically shows who changed what, where, when and why. Only the change reason can be entered manually.
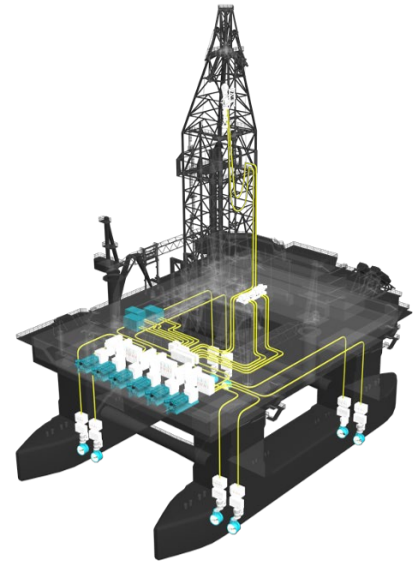
versiondog and its use in engineering
What happens in engineering when it comes to engines, switchgear, and batteries? The developer checks out their project

versiondog's free file compare function (FreeCompare) for change management is especially valued by engineers. ↓

(for which they have been given authorized access rights) to the programming device, and then, they work on creating a new version (so long as the appropriate settings have been activated this work may be done exclusively). Once finished, they Check-In their changes to the versiondog server, and a new version is available to all other authorized developers.

This way, it is no longer possible for development to be inadvertently carried out on the basis of the wrong version, provided that the developer made sure to Check-Out the latest version of the programming device at the start.

↑ *Thanks to versiondog, Siemens service technicians can easily act, as they are able to access the latest information on all drive components worldwide.*

↑ *When it comes to sites that operate 24/7, like drilling rigs, there is no time to waste when it comes to service. versiondog helps supports the experts in their precise work.*

Unified overview and reduction of standstill

One function that Jan Petersen values especially is the free compare function, which allows for file formats located outside of versiondog to be compared in detail. "It allows us to immediately see where a change was made. We use this function frequently because it helps save time when comparing Word or PDF files as well as S7 projects."

When asked what has been the greatest advantage that versiondog has helped to bring about, Jan Petersen does not need long. "The decision to bring in versiondog was born out of a desire to gain a complete and comprehensive overview with regard to all projects and versions, whether for the purpose of reducing downtime in production through immediate availability, or ensuring the seamless creation of versions for engineering, or for helping provide consistent data for service technicians worldwide. In all of these areas, backups and the ability to create versions are the most important aspects. Our expectations were thus fully met when it came to introducing versiondog."

Speaking of comparisons!

Are you already familiar with versiondog SmartCompare? When it comes to change management it is, in general, not enough to just leave a comment. It is also important to record and display transparently all changes to previous versions. That is exactly what the versiondog SmartCompare function is capable of doing. All changes are automatically detected and can be commented upon. ∎

The customer: Siemens Energy AS

Siemens Energy AS was formed by the spin off from Siemens AG. Siemens Energy has a global team of around 91,000 employees and is affiliated in the Gas and Power division under Industrial Applications. The scope of the company encompasses oil and gas, power generation, power transmission and other relevant services.

The production facility located in Trondheim is responsible for manufacturing engines and engine systems, including switchgear, controls, and software. These engines are supplied as complete units to shipyards and drilling rigs. The largest engines, used primarily for drilling rigs, consist of several engines with up to 1,200 kW per engine.

In addition, Trondheim is also an important location for Siemens when it comes to the production of batteries. These have so far been used mainly on ships and ferries, but are now increasingly being used on oil rigs. On ships, batteries are used either for propulsion or to cover peak loads. On oil rigs, where consumption often greatly fluctuates, such batteries help to buffer energy consumption.

AUVESY.

About AUVESY

AUVESY GmbH (www.auvesy.com), founded in 2007, is a leading global provider of vendor-independent version control and change management software for automated production. With its software "versiondog", AUVESY offers a product that provides industrial companies with uniform central data storage, fully automatic data backup, version management with detailed change detection and clear documentation, while at the same time being highly user-friendly and adapted to the automation systems of various manufacturers. AUVESY software is already used in more than 40 countries worldwide in a variety of different branches. The company, based in Landau in the Palatinate region of Germany, employs around 90 people.

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