White-Paper

Breaking The Firefighting Mentality

![BAUTEK INDUSTRIAL EXCELLENCE]

BAUTEK BİLGİ TEKNOLOJİLERİ
DİJİTAL DÖNÜŞÜM YOLCULUĞUNUZDA PUSULANIZ.

Dijital dönüşüm yolculuğunuzun neresindesiniz? Nereden başlayacağınızı biliyor musunuz? Kapsamlı bir dijital dönüşüm stratejisi, işletmeniz için sürdürülebilir bir geleceğe giden yol haritanızı oluşturur.

BAUTEK, "Operasyonel Mükemmellik" mottosuyla operasyonlarınızı dijitalleştirerekdaha etkili ve daha yüksek performansla yönetmenizi sağlıyor. Dijitalizasyon çözümlerimizle sıfır karbon emisyonu hedeflerinize ulaşabilir, yenilenebilir enerji dönüşümlerinizi gerçekleştirebilirsiniz. Böylece operasyonlarınızı daha sürdürülebilir ve daha verimli bir hale getirebilir, OPEX harcamalarını optimize ederek maliyet tasarrufları sağlayabilirsiniz. Yatırımlarınızdan maksimum getiriyi elde etmek için ihtiyacınız olan en doğru optimizasyon stratejilerini dijital dönüşüm çözümlerimiz ile keşfetmeye başlayın.

Türkiye'de ve dünyada öncü markaların tercihi, kendini kanıtlamış kapsamlı dijitalizasyon çözümlerimizle operasyonel süreçlerden yönetsel süreçlere tüm faaliyetlerinizi optimize edebilir, zaman ve mekân sınırlaması olmadan **7/24** yönetebilirsiniz.

Operasyonel Mükemmellik sağlayan Dijitalizasyon Çözümlerimiz;

· SCADA Çözümleri,

· Endüstriyel IT/OT (System) Platform Çözümleri,

· MES - Üretim Yönetim Sistemi Çözümleri

· Merkezileştirme ve Uzaktan İzleme Sistemleri,

· Endüstriyel Veri Toplama (Historian) ve Raporlama Çözümleri,

· İş Zekâsı ve Analitik - Raporlama Çözümleri,

· OT PLC-SCADA Uygulama Yedek ve Değişim Yönetim Çözümleri,

· Bulut Veri Toplama ve OEE Yönetimi Çözümleri,

· İş Akış Yönetim Sistemi Çözümleri,

· Mobil Bakım Yönetim ve Veri Toplama Çözümleri,

· Reçete ve Batch Yönetim Çözümleri,

· Varlık ve Kestirimci Bakım Yönetimi,

· Alarm Yönetim ve OPC Server (Tunneler) Çözümleri,

· ERP Entegrasyon Çözümleri ve daha fazlası...

Ayrıca sektör bazında, işletmelerin dijital ihtiyaçlarına ve dijital dönüşümlerini tamamlamalarına yönelik sunduğumuz endüstriyel yazılım çözümleri hakkında detaylı bilgi almak, teknik döküman ve demo uygulamalarını incelemek için bizimle iletişime geçebilirsiniz.

Bizi sosyal medyadan takip etmek için qr kodu okutunuz.
"OPERATIONAL EXCELLENCE" is our mission.

Breaking the "Firefighting" Mentality in Automation

This free white paper discusses how better data management can transform industrial automation for increased productivity with fewer problems.

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Introduction

The "Firefighting" Mentality in Automation

A firefighting mentality is one where organizations are frantically rushing to solve unexpected problems, making impulsive decisions, and applying short term "band-aid" solutions to restore production as quickly as possible.

Production plants are particularly susceptible to this mentality. Why? Plants are up against a wide variety of risks to productivity and product quality. Human error, equipment failure, cyber attack, and natural disaster all have the potential to cause significant downtime. When every minute of downtime can cost thousands, it is critical to resume production as quickly as possible.

Nevertheless, very few production plants are adequately prepared for worst-case scenarios or even everyday issues. A proactive approach to data management for automation could save time, money, and effort.

This white paper will discuss how better data management can transform your industrial automation for increased productivity with fewer problems. First, it will explore the causes and concerns of a reactive "firefighting" approach to maintenance in automation. Then, it will propose data management tools and best practices to help break these habits.

The Risks

Concerns about the "Firefighting" Mentality in Automation

When engineers and maintenance personnel spend their days aiming for "good enough," product quality and operational efficiency suffer in the long run. In the following examples, a "firefighting" mentality of impulsive decision-making and short-term solutions creates more problems than it solves.

Misplacing or Losing Data

Without a proactive approach to data management for automation, project data is often disorganized and hard to find. Even excellent employees forget to store data properly or follow manual naming conventions. Even if the project data is stored in a central location, it is hard to know if that version is really the most recent one. Does it match the version running on the production floor? Has someone made changes to it without documenting them properly?

Inconsistent Backups

Everyone remembers the importance of performing consistent backups - right after they realize they need one. It is easy to forget when more pressing problems are diverting your attention or draining your time. With manual backups, there is a higher opportunity for human error. This can cause significant downtime or disruption if a device was overlooked or a backup was not performed on time. Even if a backup does exist, is it stored in an accessible and secure place?

Forgetting to Document Changes

Properly documenting changes can seem like a last priority when trying to get production back up and running quickly. If this mundane task isn't performed consistently and completely accurately, it could cause problems in the future. Without a change management system in place, the small differences between one version or another could go unnoticed, causing unplanned downtime or a decline in product quality.

Overlooking Unauthorized Changes and Cyber Attacks

No one wants to think about the worst case scenario, but manufacturers are increasingly the target of cyber attacks. In plants where a "firefighting" mentality is prevalent, there may not be a proper plan in place to detect and restore production back to business as usual after a malicious attack. Is there a process in place to quickly detect a small but harmful change? If not, this could cause prolonged downtime and severe disruption.

Underpreparing for Audits

Audits can be time-consuming and difficult in the best of circumstances. In an environment where a "firefighting" mindset is prevalent, it can feel almost impossible. When engineers and maintenance personnel are urgently resolving one issue after another, is proper audit documentation really going to be their priority? Production plants can waste significant time and money if they don't address this shortcoming proactively.

The Solution

How Production Plants can Break the "Firefighting" Mentality

There is no debate that the cycle of stressful troubleshooting and impulsive decision-making is a difficult one to break. However, advances in preventative maintenance and operational technology have made it possible to upset the status quo for the better.
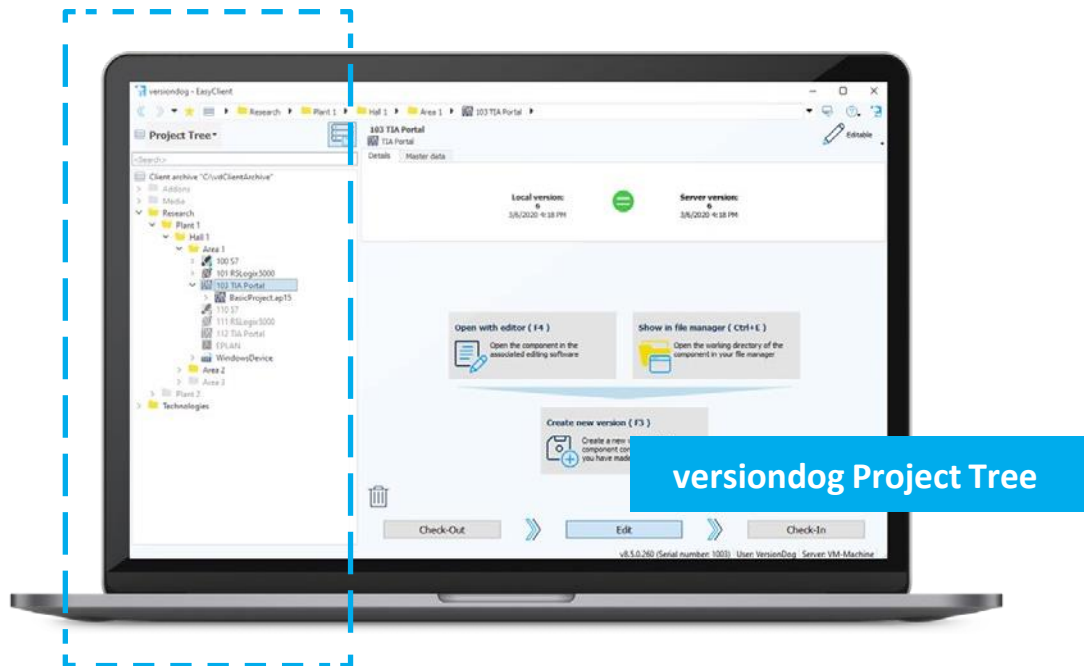
One of the best ways to improve industrial automation both for worst-case scenarios and for day-to-day problems is by improving data management processes. A reliable data management system for automation can dramatically change the way production plants operate.

In the following examples, the concerns that a "firefighting" mentality can create are resolved through better data management practices with versiondog. versiondog is a fast and reliable version control and automatic backup software specifically tailored to the needs of production plants and manufacturing facilities.

Centralized Data Management

In the case of downtime or disaster in a production plant without centralized data storage, valuable time can be wasted locating data or dealing with data loss. With centralized data storage, production plants can always find a recent, error-free version when they need it. versiondog's simple project tree makes it easy to find project data and quickly view a version history for any device.
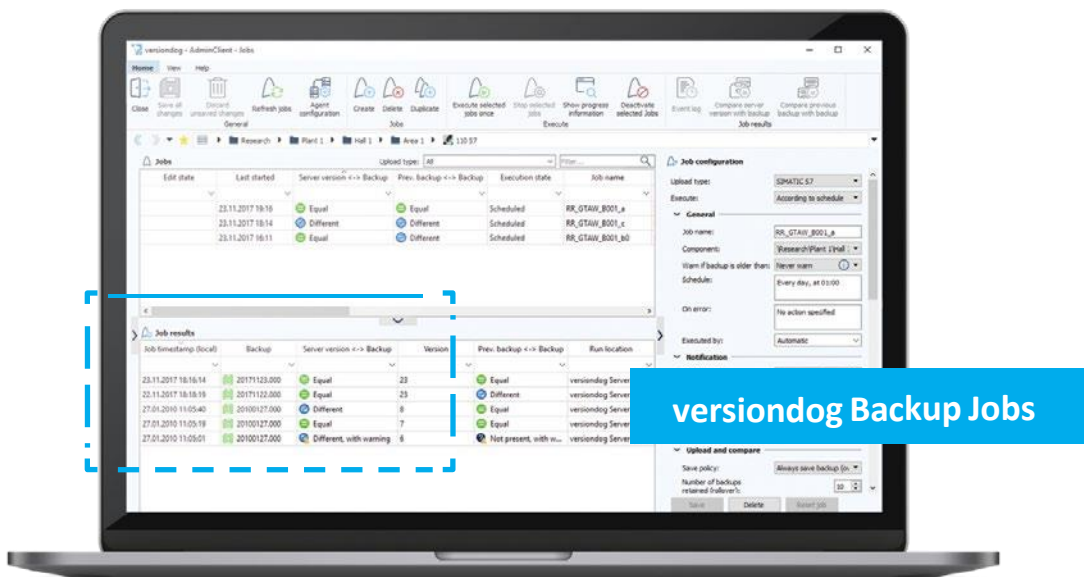
It is also important to note that a proper data management system for automation will provide user access management as well. Only the people that need access to data will have it – much more secure than options like USB sticks.
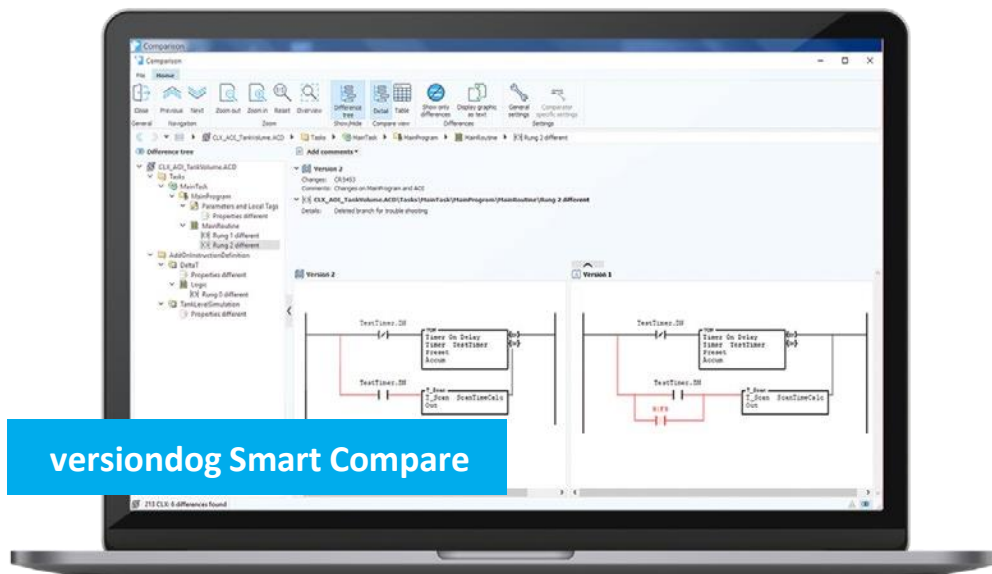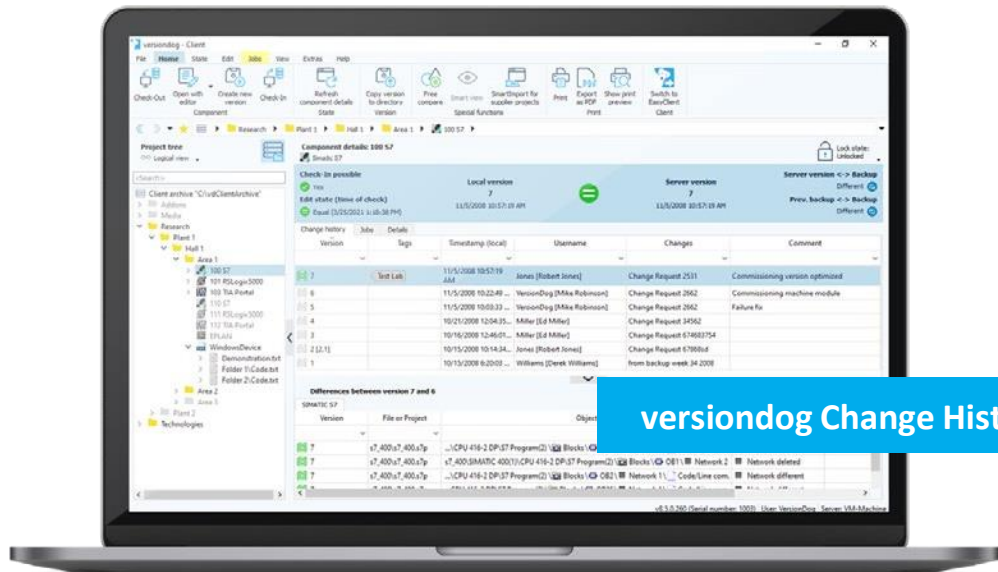
versiondog Project Tree

Automatic Backups

Gone are the days of relying on the manual "sneaker method" to perform backups. Modern data management systems for automation can run automatic backups for a wide variety of device and data types. versiondog is manufacturer-independent, meaning that it allows production plants to use a single strategy to manage data from many different manufacturers.

This immediately alleviates the need for a "firefighting" mentality by ensuring a recent backup is always available for any device in the facility.

versiondog Backup Jobs

Change Management

Manual change management is an error-prone and inconsistent method for most production facilities. With a change management system like versiondog, plants can automatically track who changed what, when, where, and why for the devices in their facility. Users simply need to input a brief change reason for any new version – versiondog monitors the other important information like user IDs and timestamps. This ensures all change documentation is complete and consistent.

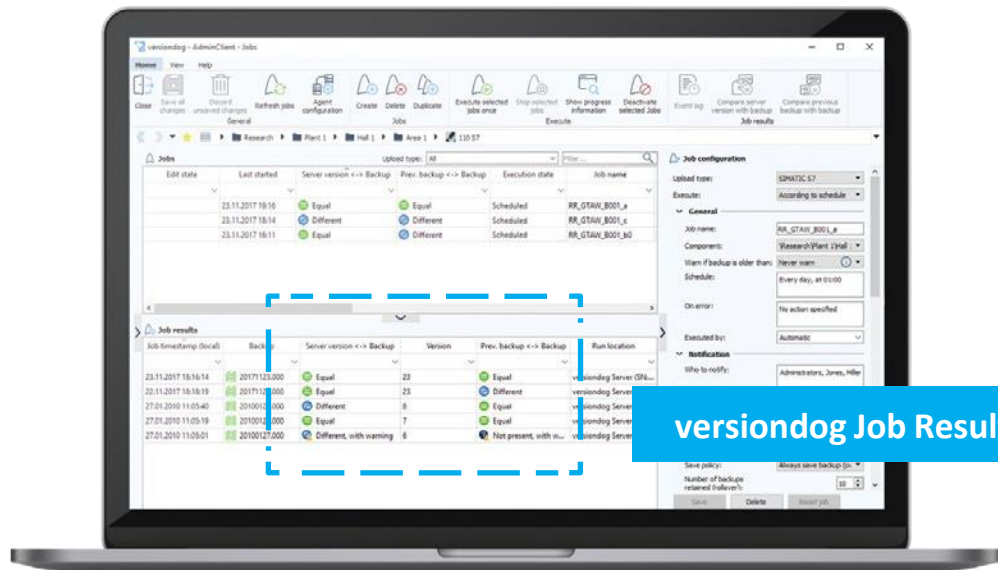versiondog Change History

versiondog Smart Compare

versiondog also makes it easy to quickly determine the differences between one version and another. With graphic SmartCompares, users can quickly detect even the smallest difference.

Change management systems for automation are incredibly useful for breaking the "firefighting" mentality as they help users gain confidence in their project data. Production plants can save significant time and effort both when they are making small changes to improve the production process and when they need to restore data after downtime or disaster.

Cybersecurity

Without a proper data management system in place, the threat of a cyber attack or unauthorized change is ever-present. Don't wait for downtime or disaster to strike. versiondog detects unauthorized changes by comparing the version on the device with the version stored on the server. If differences are detected, versiondog notifies the appropriate personnel to investigate further.
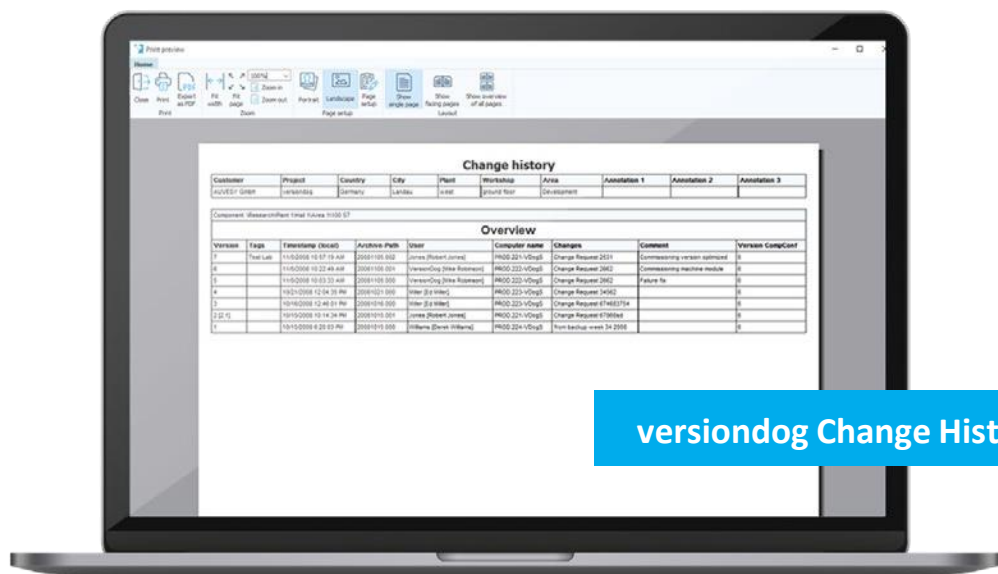
versiondog breaks the "firefighting" mentality here by preparing plants for the worst-case scenario. After all, hope isn't a good strategy for defending against hackers.

versiondog Job Results

Documentation

With better data management processes, personnel can spend less time manually documenting changes and more time on the important things. Because change management systems like versiondog automatically track who changed what, when, where, and why, documentation is always complete and accurate.

This simplified audit trail process breaks the cycle of short-term problem-solving and "band-aid" fixes by providing a long-term solution to the documentation problems that plague many plants.

versiondog Change History

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