



CONSOLIDATING YOUR MAINTENANCE AND ENGINEERING INFORMATION DURING COVID-19 AND BEYOND



TABLE OF CONTENTS

The Purpose of This eBook	3
Introduction	4
Increasing Operational Efficiency	5
Consolidating Disparate Departments	5
Introducing Meridian	7
Introducing Maintenance Connection	9
Mobile Solutions for a Post COVID-19 World	10
Advantages of Integrating Meridian & Maintenance Connection	12
Streamline Your Engineering & Maintenance Processes	13
Increase Collaboration & Speed Up Work Order Completion	13
Integrating Your Engineering Document Management & CMMS Solutions for a Post-Pandemic World	15



THE PURPOSE OF THIS EBOOK

When referring to engineering document management for drawing and documents, many systems are available for both generic and specialized purposes. However, there is a clear difference between generic document management systems and specialized ones.

In this document, we will explain how Accruent's engineering data and document system (EDMS) Meridian is different from a generic enterprise content management system (ECMS) and how it can be extended to integrate with full asset management systems (CMMS) like Maintenance Connection.

Furthermore, we will provide an in-depth explanation of why integrated solutions would help your business become more efficient and cost-effective.

We will offer you a complete overview of the benefits for both Meridian and Maintenance Connection and how they can help you improve your business process, increase your overall revenue, reduce costs and improve regulatory compliance – particularly during the COVID-19 pandemic.




INTRODUCTION

An evolution in the way of working has emerged over the last few decades, with technology playing a massive role in the ever-changing world of manufacturing. The past couple of months has proven that being adaptable in the face of adversity is required to stay ahead of the game. How are they coping with the new world of COVID?


According to McKinsey, “Most important, manufacturers are likely to be much more digital, as is already evident in the immediate response to the crisis. Industry leaders are leveraging Industry 4.0 solutions, with 39% having implemented a nerve-center, or control-tower, approach to increase end-to-end supply-chain transparency, and around a quarter are fast-tracking automation programs to stem worker shortages arising from COVID-19.”

From the paper-based work order to the never-ending Excel spreadsheets, organizations must become innovative in the way they communicate. If in-office meetings where you share technical documentation are no longer the standard, alternatives needed to be found in order to adopt new ways for companies communicate assets and share information – whether inside the organization or with outside sources.

Recent research has shown that manufacturers using digital solutions are better positioned and have moved faster than their peers during the COVID-19 crisis.



“People aren’t afraid of change...they are afraid of being changed.”



INCREASING OPERATIONAL EFFICIENCY

Within maintenance solutions, change is constant. Engineering documents are continuously under development, with multiple teams assessing the same documents. Maintenance work has to be planned, re-planned and assigned to certified staff, with the following clarifications:



Who is available?



Who is in range of the work that should be done?

CONSOLIDATING DISPARATE DEPARTMENTS

How often do you have the feeling that you were working in siloed departments? Or that the different software solutions your enterprise provided don't communicate appropriately, making your work less efficient?

Every day, organizations are confronted with pains and challenges to:



Reduce downtime



Accelerate service requests



Gain maintenance intelligence



Optimize inventory and reduce stock-outs.



Improve planning and productivity

It goes without saying that companies must be equipped with the right tools and overview to organize this in a professional matter. Enterprises need to avoid downtime and have the correct spare parts at the right time. Missing information is not acceptable anymore.

The better and more efficient an enterprise runs, the more money it saves – enabling it to deliver on its project goals and timelines.

HOW CAN EQUIPMENT LIFETIME BE INCREASED TO GET MORE VALUE OUT OF AN ENTERPRISE CAPITAL INVESTMENT?

Typically, CMMS solutions keep track of technical documents ranging from work order history to bills of materials. However, numerous other types of technical documents and industrial drawings are associated with an asset. The core asset information materials needed when performing MRO (Maintenance, Repair and Operations) activities include:



Industrial/Technical drawings



Vendor manuals



Operating and maintenance procedures



Other information related to P&IDs and process flow diagrams





“Companies are asked to do more with less every day”

Relying on paper-based systems to manage these technical documents can lead to ineffective document control. With thousands of industrial or technical drawings and procedures associated with items like plant form P&IDs and process flow diagrams, it is imperative to have accurate information when and where these materials are needed.

INTRODUCING MERIDIAN

Accruent's Meridian solution transforms engineering data into actionable plant information, keeping users in control, compliant, aligned and informed throughout the asset lifecycle.

SOME OF THE BENEFITS INCLUDE:

-  1 Creating a single source of truth
-  Collecting all of your technical documents, images and drawings in one single place
-  Configurable workflows to streamline with all internal departments
-  Standard systems to ensure every document change is versioned and audited to demonstrate regulatory compliance

Meridian is a versatile EDMS solution with a broad range of features. It allows companies in multiple industries to optimize their business processes related to the creation, collaboration and distribution of engineering data.

Meridian is also an asset information management solution for owner-operators and an ECMS solution for contractors and equipment suppliers. This is due to the multitude of features, from flexibility in system configurability to specific user requirements used to address specific business needs.

Meridian is feature-rich and configurable to meet organization-specific requirements. With the option of On-Premises or Cloud implementation, Meridian is scalable and can be implemented as a solution from local teams up to the enterprise level.

IN ADDITION, MERIDIAN PROVIDES OUR CUSTOMERS THE FOLLOWING DIFFERENTIATORS OVER ECMS:



Departments are connected through the integration of maintenance management, facilities management or ERP systems.



Work and display drawings in PDF renditions depend on the regulatory requirements applicable to your organization.



Manage references and assembly structures correctly within the application. Most ECMS solutions are not built to truly manage the multiple file types and relationships required with these highly complex filetypes.

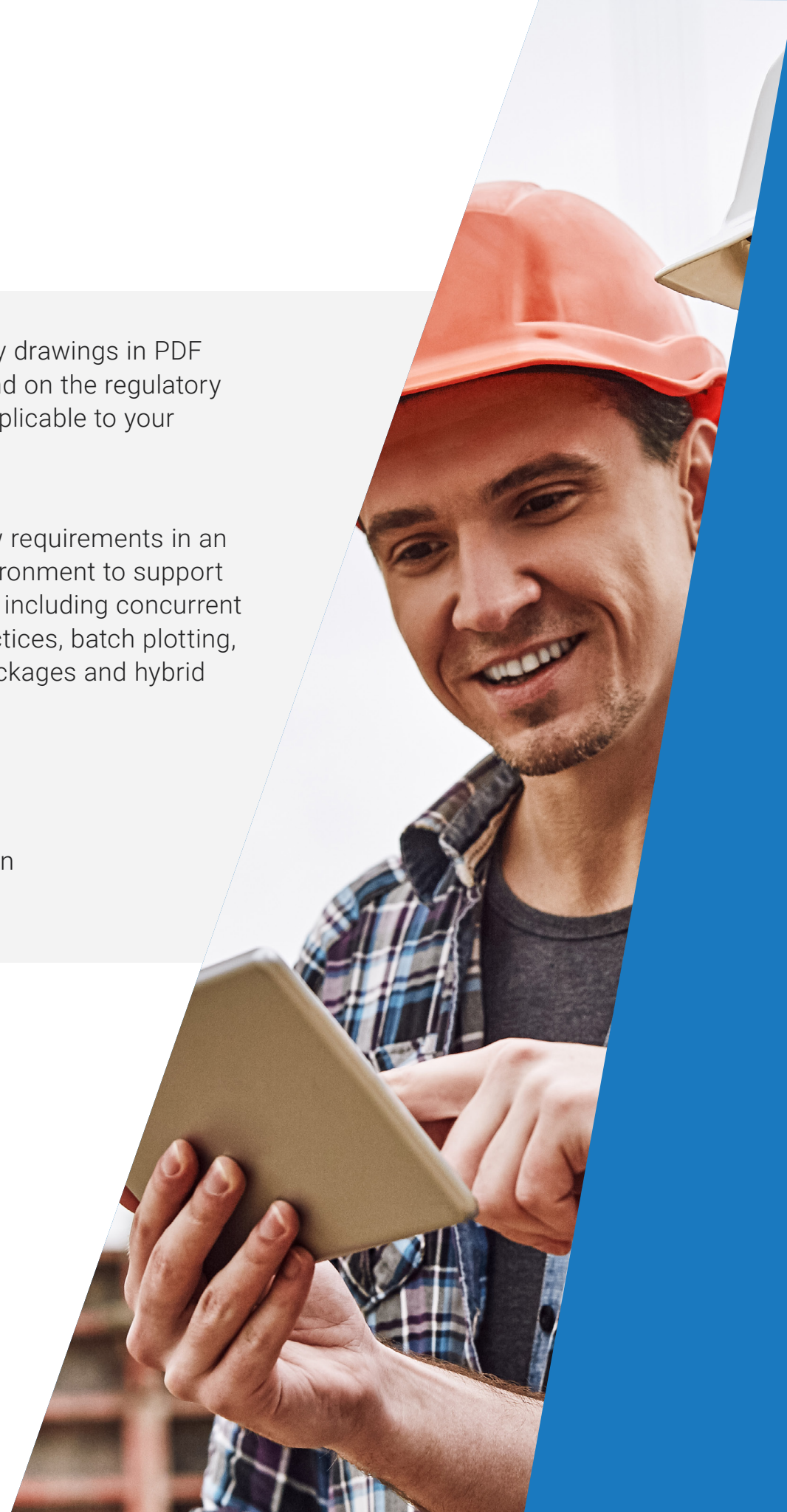


Ad hoc workflow requirements in an engineering environment to support work processes, including concurrent engineering practices, batch plotting, created work packages and hybrid files.



Robust integration with authoring engineering applications – such as AutoCAD, Revit, MicroStation, Inventor and Solidworks – and office applications that synchronize data between documents and the Meridian database to keep data accurate, reduce errors and improve accuracy.

Meridian is designed to support, manage and enable engineering changes. It has been purpose-built to facilitate productivity through complicated and exacting workflows when working with critical documents such as those operated by engineering department.





INTRODUCING MAINTENANCE CONNECTION

Accruent's Maintenance Connection is the manufacturing leader when it comes to CMMS software solutions. It has helped maintenance teams manage work orders, organize and execute preventive maintenance, and maintain enterprise equipment and its inventory.

BENEFITS INCLUDE:



Extended equipment life



Increased labor efficiency



Insight into asset health



Predictive vs. reactive maintenance compliance

Maintenance Connection is built to handle complex enterprise needs with capabilities that include multi-site deployment, IoT sensors and M2M (Machine-to-Machine) data exchange to generate asset management insights.

Its cloud-based solution assists in transitioning from reactive to proactive preventative maintenance programs.

KEY FEATURES:



Unlimited event-based automation



Flexible reporting



Drag & drop labor scheduling



Centralized work order lifecycle management

MOBILE SOLUTIONS FOR A POST COVID-19 WORLD

As more employees begin to work from home, having access to information from anywhere is no longer a “nice to have” but instead, a need from all the teams involved in the project. With COVID-19 also came the necessity for flexible working hours, beyond just the “standard” office hours. Both Accruent’s Maintenance Connection and Meridian solutions offer mobile applications, which provide anytime, anywhere access to the data teams need.





With MC Express, Maintenance Connection's mobile application, your technicians can quickly and conveniently access work orders, view attached documents and files, and upload photos from their iPad, Android tablet or other mobile devices from the field. This prevents extra trips back to the office and eliminates the need for printouts.

Accruent's MC Express can help improve the utilization of your most important asset: your mechanics. Using a smart device, your team can access all asset lifecycle information from the field, helping to reduce unplanned labor stoppage.

KEY HIGHLIGHTS:



Save time by accessing the right information, when and where you need it



Increase productivity and labor effectiveness



Improve the collection and distribution of information



With remote work growing in prevalence, organizations are increasingly moving to the cloud — with engineering document management systems that ensure access to their data at any time, not just when employees are in the office.

Meridian Mobile is an Accruent engineering document management system dedicated to helping facilities process the demand for engineering drawing and document information. With a solution that ensures access to internal documents at any time, organizations can expedite project delivery confidently and increase operational efficiency.

With Meridian Mobile, users can stay informed, compliant, and control their engineering drawing and document data while they are away from their desks. With these mobile capabilities, they gain access to view and approve asset documents from their iOS, Android, or Windows phones or tablets. Users can take swift action on their workflow tasks from anywhere at any time.

ADVANTAGES OF INTEGRATING MERIDIAN & MAINTENANCE CONNECTION

Before COVID-19, we helped companies transform their operations and production by centralizing their assets and moving forward to a more preventive maintenance operation. With the pandemic, their needs and capability of adjusting themselves became a necessity.

ACCELERATE YOUR TRANSFORMATION WITH THE MERIDIAN & MAINTENANCE CONNECTION INTEGRATION

Imagine two integrated solutions where:



Asset information synchronizes with duplicate data automatically



Technicians can upload documents that must be processed by engineering teams



Maintenance teams do not lose time due to searching for documentation or incomplete or outdated documentation



Maintenance teams can seamlessly submit their change requests to engineering

BY INTEGRATING MERIDIAN AND MAINTENANCE CONNECTION, ORGANIZATIONS CAN ACCOMPLISH ALL OF THESE AND MORE.

“Acceleration is the Keyword”

STREAMLINE YOUR ENGINEERING & MAINTENANCE PROCESSES

Break down information silos between your engineering and maintenance departments by combining Maintenance Connection, a multi-site enterprise asset management software (EAM), with our streamlined engineering document management (EDMS) system, Meridian.

Together, these solutions empower your organization to improve safety and consistency and allow you to spend more time producing quality products.

INCREASE COLLABORATION & SPEED UP WORK ORDER COMPLETION

The lack of accurate and readily available asset information can limit your ability to safely deliver quality products because of the increased potential for worker injuries and work order delays.

Better document and drawing visibility expedites maintenance work and improves the delivery of field markups, keeping your asset documentation accurate and reliable.





ENHANCE COMMUNICATION BETWEEN TEAMS

- Ensure disparate teams have access to up-to-date documentation.
- Provide shared access to official documentation for both engineers and field technicians.
- Gain access to markup tools for comments and edits.



ENSURE QUALITY PRODUCTS

- Provide maintenance teams with accurate on-site documentation.
- Reduce search time for engineering information from hours to minutes.
- Avoid production delays due to inaccurate information and unplanned downtime.



STREAMLINE WORK ORDER PROCESSING

- Avoid loss of key information that can cause on-site work order delays.
- Search, view and download documents for asset service with a single click.
- Access more documents, including maintenance manuals, inspection reports and P&IDs.



AVOID SAFETY INCIDENTS

- Make changes to key documents and see automatic updates across the system.
- Keep communication open between engineering and field technicians.
- Facilitate a seamless handover between engineering and maintenance teams.

INTEGRATING YOUR ENGINEERING DOCUMENT MANAGEMENT & CMMS SOLUTIONS FOR A POST-PANDEMIC WORLD

With the integration of Accruent's industry-leading engineering document management, Meridian, and CMMS, Maintenance Connection, manufacturers can unify their engineering and maintenance teams with streamlined access to accurate dynamic asset information.

Maintenance professionals in the manufacturing industry can easily access all of their current technical documentation with the click of a button directly from Maintenance Connection, while Meridian provides a single source of truth for all engineering information to support maintenance safety in the field-eliminating duplicate data entry into different systems.

As the COVID-19 pandemic continues, consolidating your maintenance and engineering information is increasingly important to improve your business process, increase overall revenue and maintain regulatory compliance. In this challenging period, it is not enough to be reactive – companies must be proactive to ensure safety for their employees and, ultimately, long-term success.

CONTACT FOR A DEMO

Accruent, LLC

sales@accruent.com | www.accruent.com | +44 (0) 203.998.0128