

DFS Digital Maintenance

Transforming Asset Management in Air Traffic Control Infrastructures

“ In Evora we have found a strategic supplier for DFS who helps us to transform our maintenance to the next level. With the high level of expertise of the employees and efficient cooperation, Evora is highly recommended as a consulting and implementation partner for SAP Asset Management solutions. ”

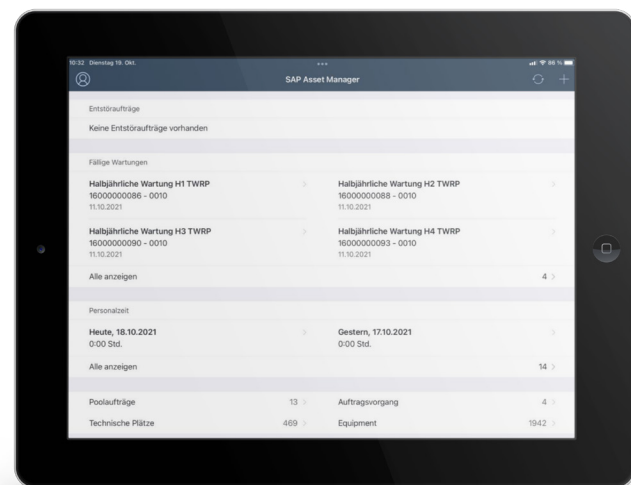
Eva Maria Gerber, Advisor Digital & Data Services, DFS

DFS Deutsche Flugsicherung

DFS Deutsche Flugsicherung GmbH, the German air navigation service provider, is a state-owned company under private law with 5,600 employees as of 31 December 2021. DFS ensures the safe and punctual flow of air traffic over Germany. Around 2,200 air traffic controllers guide more than three million flights through German airspace in peak years, up to 10,000 every day. To do so, DFS relies on the availability of complex infrastructure such as air traffic management, surveillance systems, and navigation aids.

Challenge: Digital Transformation in Maintenance

The joint journey of DFS and Evora started with enhancing the mobile solutions used in technical facility management. Digital and mobile solutions are now widely used in all areas of business and are revolutionizing the maintenance of technical assets at DFS. The recent initiative comprises solutions for the digital maintenance of air traffic control systems throughout their entire lifecycle. The focus is on sustainable and scalable SAP-supported process improvements with a focus on standardization, automation, mobilization, and harmonization.



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Mobile Solutions

SAP Asset Manager

Additional Fiori Apps (EvoSuite)

Solution: SAP Asset Manager Implementation for Surveillance

In the first phase of the project, DFS implemented SAP Asset Manager as a central tool for the system engineers in the domain of surveillance, enabling mobile work for maintenance and interference suppression tasks at radar units. The introduction of the SAP Asset Manager allows DFS to improve workplace ergonomics, increase efficiency by avoiding double work, and enable online/offline functionality.

This provides the system engineer with a fully SAP-integrated device for the documentation and organization of all activities regarding maintenance and repairs. The standardized maintenance procedures are implemented with checklists based on SAP code groups, which will be extended by more advanced ones based on SAP QM inspection lots in the future. Furthermore, the integration in the repair workshops and logistics provides the basis for a region and domain overlapping end-to-end process in SAP, supported by EvoSuite apps from Evora.

In addition to the implementation of the mobile solution, DFS is adopting advanced technologies to transform its asset and maintenance management capabilities with the SAP Predictive Asset Insights (PAI) solution. SAP PAI allows remote monitoring of asset conditions and performance in near-real-time. By shifting from reactive to condition-based and predictive maintenance, DFS aims to reduce downtime and maintenance costs as well as prolong asset life.

Optimizing Asset Availability

SAP Predictive Asset Insights

“ We are working closely with Evora on the global rollout and developing additional Fiori Apps for mobile maintenance. In the future, we are looking forward to optimizing our resource planning in combination with the extended use of SAP Asset Manager. We are excited to gain new data insights and optimize our equipment reliability and availability. ”

Felix Braun, Advisor Digital & Data Services, DFS

Outlook: Future of Digital Maintenance

Based on the promising outcome of the pilot projects, DFS is going to rollout SAP Asset Manager company-wide, implement additional Fiori Apps (EvoSuite), as well as implement new use cases for SAP PAI. By switching from paper-based and non-standardized maintenance processes to IT-based end-to-end processes, DFS will transform their approach to digital maintenance and data-based solutions. On their digital evolution from basics to maturity, DFS drives its seamless process integration to the next level.

