



Increase military asset readiness with cognitive technology

Explore IBM Cognitive Equipment Advisor

Highlights

- Operational and mission readiness is the top priority for defense organizations, and equipment availability is therefore critical.
 - Together, IBM and SAP are helping military organizations to predict and prevent equipment failure and avoid unplanned asset downtime.
 - IBM Cognitive Equipment Advisor complements SAP® for Defense & Security solutions with advanced AI-based predictive maintenance capabilities to help save time, money, and lives.
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Save time, money, and lives

Mission readiness is the number one priority in defense and security. Every branch of the military needs to be ready to perform missions anywhere and at any time, so the availability, uptime and performance of its equipment – whether aircraft, vessels, vehicles, or weapons – is critical.

Together, IBM and SAP are helping military organizations improve operational readiness and avoid unplanned downtime. IBM Cognitive Equipment Advisor augments SAP for Defense & Security solutions with machine learning, natural language processing and other facets of artificial intelligence (AI) to deliver advanced predictive maintenance capabilities for high value assets.

By predicting and preventing equipment failures – and prescribing remedies for maintenance technicians – the solution has already delivered:

- Up to 25% improvement in overall fleet readiness
- Up to 37% potential increase in stockage effectiveness rate
- Up to 33% reduction in costly unscheduled repairs

Read how IBM Cognitive Equipment Advisor can help you save time, money, and lives.

Predict and prevent equipment failures

IBM Cognitive Equipment Advisor enables military organizations to evolve from reactive and routine maintenance to more flexible and effective predictive maintenance. The solution provides a simple KPI-based view of individual asset status to:

- Reduce unscheduled maintenance and component failure
- Increase technician speed and efficiency
- Improve overall availability of weapons systems and assets

Get an actual view of asset health

IBM Cognitive Equipment Advisor analyzes the huge volumes of sensor data generated by modern military assets and compares this with available historical data to accurately predict any component and system failures. Every asset in the SAP for Defense & Security system has a unique identification number. The IBM solution injects SAP master data to provide an actual view of individual equipment health and operational readiness, offering mission relevant dashboard functionalities for military decision-holders.

Streamline planned maintenance and procurement

IBM Cognitive Equipment Advisor enables users to not only predict exactly which system or component will fail, but also provides an estimated timeframe for that failure. This data is then exported back into the SAP maintenance and procurement planning processes to trigger the appropriate notifications and actions. This visibility ensures that the correct replacements are available and inventory is replenished to accelerate repairs, reduce costs, and minimize downtime.

Improve technician efficiency

Many of today's military assets have been in active service for decades and are complex and time-consuming to maintain. IBM Cognitive Equipment Advisor uses natural language processing to analyze the thousands of maintenance-related documents associated with larger assets such as warships. This information enables maintenance and procurement personnel to predict which parts are likely to need repairs or replacements most often, ensure their availability, and manage supplier relationships more effectively.

Sources:

1. "IBM Cognitive Equipment Advisor: Predictive maintenance for the military," ©IBM Corporation 2020.



“Predictive maintenance allows us to get ahead of equipment failures. We’re talking about an effort that saves money in the billions annually. That’s the potential here.”

Retired Col. John Kuenzli



IBM and SAP: Redefining the Intelligent Business Standard

Organizations of all sizes and industries are looking to create exceptional customer experiences, uncover new revenue opportunities, optimize investments and fundamentally reinvent how business gets done by using intelligent technologies and migrating to the cloud. But the shift in strategy to do it right is far from easy.

IBM and SAP have the innovation and industry expertise to help set that strategy and see you through the change. We are actively working with businesses around the world to define the standard for how AI, machine learning, and other intelligent technologies are used most effectively and most responsibly.

SAP provides the world's leading intelligent applications and technologies – connecting, clarifying and using all the data that matters to your organization to make your processes more nimble and decisions more powerful. IBM helps customers build smarter businesses and is a global leader in SAP transformations – offering in-depth industry and process experience, together with game-changing AI, hybrid cloud and on-premise deployment, and talent and change management capabilities.

Together, we will lay the foundation for innovation for your business, infusing the best technologies available, preserving your existing investments, and taking your organization where it needs to go. We'll help you take transformation from a boardroom topic to an everyday reality – working together to bring intelligence to your entire enterprise.

For More Information visit: www.ibm-sap.com/digitaltransformation

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