

Capgemini Manages Your Rail Assets Using IBM Maximo

Capgemini uses IBM Maximo® software to help railroads replace components or fix assets before they break - keeping operations running smoothly and significantly lowering costs

For many rail organizations there is a need to manage a wide variety of assets, including:

- **Rolling Stock:** locomotives, passenger cars and freight cars
- **Linear Assets:** track, signals, bridges, tunnels and power
- **Facilities:** buildings, stations, depots and other repair facilities
- **Support Fleet:** cars, trucks and other specialized equipment for repairs
- **IT assets:** data centers, network hardware, desktops, laptops, telephony, etc

In some countries, like the Netherlands and the UK, privatization has led to the separation of asset management of rolling stock from linear assets, while in most countries the rail system must manage all the assets. Whatever the case, every rail system must support a variety of equipment while staying focused on providing increased value to their customers.



Because rolling stock and linear assets are both “revenue generating” assets for a rail system, organizations will typically address these areas first when incorporating an asset management system. Both types of assets share some challenges, such as aging workforce, safety, security and regulatory changes, and improving service levels, but in general each has very specific needs.

Those managing rolling stock assets are concerned with increasing asset reliability and availability, improving asset performance to reduce the impact of rising fuel costs, recovering warranties on components and parts, optimizing inventory levels and reducing material costs, and capturing accurate data to drive condition-based maintenance programs.

For the companies or divisions managing linear assets, their challenges include managing aging infrastructure while also supporting growing service demands, managing continuous assets with dynamic segmentation, supporting visual and automated inspection systems and addressing lost revenue due to track occupancy.

Railroads are seeking asset management systems with out-of-the box capabilities that address all of these challenges.

IBM® provides asset management and service management solutions for more than 500 transportation organizations worldwide, including many rail railroad companies. IBM Maximo for Railroads is a leading Enterprise Asset Management (EAM) solution designed to provide rail organizations with best practices to help improve the performance of their critical assets and to enable organizations to better support people, processes and technology.



One of the many benefits of Maximo Asset Management software is that it can be integrated with on-board systems to monitor and diagnose defects, like improper brake pressure or a malfunctioning train door, and then issue the proper work orders. It can also help to maintain critical components, like traction motors, by replacing them periodically based on life expectancy. Additionally, the software can be used to maintain the shop equipment used to repair and overhaul rail car components.

The intelligent asset management software allows customers to continuously evaluate and implement improvements and plan for a more efficient workforce, allowing companies to maintain high standards for service and reliability and meet the challenges of future expansion even as budgets and resources tighten. Customers can also use the software as a helpful tool when preparing to purchase, test or accept new rail cars. And it provides complete visibility into all assets and services, allowing companies to better address regulatory requirements, inventory conventions and international standards.

Making sure the right parts are available before they are needed and eliminating parts that are no longer used is another benefit. Better managing and maintaining assets also allow railroads to prepare for or receive instant notification of problems or equipment failures. This enables them to manage these issues in line with overall operations to keep trains on tracks, in service, and running on time.

Finally, the Asset Management System could also be expanded to include maintenance and management of all IT assets including PCs, laptops, servers, and software licenses.

Capgemini has invested in building robust knowledge and delivery capabilities around Maximo Asset Management, giving us the ability to run complex asset management projects, from business design to package implementation and integration. A close, collaborative business relationship is a valuable tool when it comes to delivering customer value. That's what the relationship between Capgemini and IBM – in place since 2001 – achieves. The two companies have complementary strengths: Capgemini's consulting, technology and services expertise combines with IBM's industry-leading technology offerings to create highly effective client solutions. Two leading companies working together toward a common goal are able to create synergy, allowing them to achieve much more for their clients.

Capgemini's strategic investment in IBM's asset management processes and systems has resulted in improved offerings for our clients. For example, Maximo runs on Capgemini's IBM Global BlueWorld Hub hosted in India. This platform is accessible from every Capgemini office for demonstrations and concept development. In addition, IBM's recent acquisition of ILOG integrates seamlessly with Maximo EAM for Advanced Planning and Scheduling, an area where Capgemini is recognized for its world-class expertise.



About Capgemini and the Collaborative Business Experience

Capgemini, one of the world's foremost providers of consulting, technology and outsourcing services, enables its clients to transform and perform through technologies. Capgemini provides its clients with insights and capabilities that boost their freedom to achieve superior results through a unique way of working, the Collaborative Business Experience™. The Group relies on its global delivery

model called Rightshore®, which aims to get the right balance of the best talent from multiple locations, working as one team to create and deliver the optimum solution for clients. Present in more than 30 countries, Capgemini reported 2009 global revenues of EUR 8.4 billion and employs 90,000 people worldwide.

More information is available at www.capgemini.com

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For more information on how Capgemini and IBM Maximo for Rail can help you, please contact:

Dennis Wereldsma
Global Transportation Sector Lead
Capgemini
dennis.wereldsma@capgemini.com
Tel: +31 30 689 6076