

Safety & Recall

Cross Brand Future State end-to-end Safety and Recall Management

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Safety & Recall



The solution is a comprehensive approach to digitize and streamline the Safety & Recall Management system for automotive and OEM companies. It combines data analytics, customer care, and omnichannel communications to create a robust platform for safety and recall management. Built on Microsoft Azure and integrated with Microsoft Dynamics 365, the solution utilizes data analytics, Azure Al, Azure Machine Learning, and automation to provide real-time insights, manage recalls, improve customer service, and ensure compliance with regulatory requirements. The platform captures safety alerts from various data sources, processes them for issue detection, and integrates seamlessly with customer care functions to improve operational efficiency and customer satisfaction.

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- Complex Data Integration: The system needs to handle data from diverse and multiple sources, including trucks, cars, and buses, with varying formats and systems.
- Alert Detection and Safety Risk Identification: Identifying and assessing safety-related issues from incoming alerts based on defined thresholds and filters is a complex task. Synchronizing alerts that are converted to cases for further investigation.
- Compliance with Regulatory Reporting: Ensuring that all safety and recall data is reported accurately and on time to avoid penalties.
- Improving Operational Efficiency:
 Automating manual workflows and reducing the time taken to process safety issues and claims while maintaining high customer service standards.
- Data Security and Governance:
 Safeguarding data while ensuring proper synchronization and compliance with governance rules.

Offering

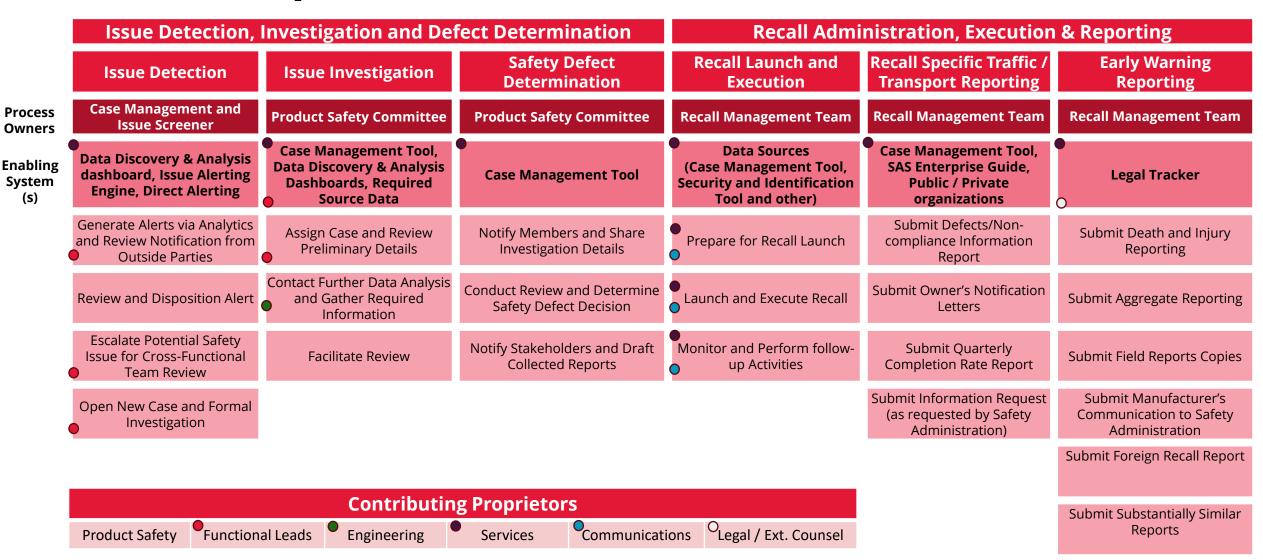
- Safety Data Analytics Infrastructure (SDAI): Leveraging Microsoft Azure's data platform (Azure Data Lake, Azure Data Factory, Azure AI & Azure Machine Learning) to capture, process, and analyze alerts from multiple data sources for issue detection.
- Customer Care & Omnichannel
 Communication: Using Microsoft
 Dynamics 365 Customer Service to manage
 case workflows, knowledge management,
 and real-time collaboration, along with Aldriven insights to enhance customer care.
- Al and Automation: Automating workflows, providing Al-based case recommendations, and reducing manual processes to enhance productivity and issue resolution time.
- Regulatory Reporting Compliance:
 Ensuring compliance with various recall and safety reporting requirements such as Safety Defect Reports, Foreign Recall Reports, and Owner Notifications.
- Warranty Management: Automating warranty claims processes, including claim entry, adjudication, and supplier recovery, with significant cost reductions and improved efficiency.

Outcomes

- Improved Operational Efficiency:
 Streamlined workflows and automated processes have led to faster issue detection and resolution, reducing operational bottlenecks.
- Increased Customer Satisfaction:
 Enhanced customer care capabilities, with omnichannel engagement and Al-driven support, have improved customer experiences.
- Cost Reductions: Significant savings in warranty processing costs, including a reduction of approx. \$50 million in warranty costs for any major automaker and automation of over 50% of warranty claims processing.
- Regulatory Compliance: The solution ensures adherence to safety and recall regulations, minimizing the risk of penalties by ensuring timely and accurate reporting.
- Data-Driven Insights: The integration of Microsoft Power BI and AI Insights in Power BI provide valuable insights into operational performance, aiding decisionmaking and process improvement.



End-to-end Safety and Recall Management Workflow Option



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Benefits of Solution

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The solution delivers substantial financial benefits through a combination of warranty cost reductions, operational efficiency, regulatory compliance and others:

- Approx. Warranty Cost Savings: \$50M in reductions via Al and automation.
 \$75K/month savings using Robotic Process Automation (RPA). \$40M savings through Al/ML claims pre-validation. \$30M \$40M annual savings from automating over 50% of warranty claims processing. \$20M savings from an end-to-end warranty solution with supplier recovery.
- **Regulatory Compliance:** Ensures timely and accurate safety defect reports and recall communications, avoiding penalties.
- **Operational Efficiency:** Faster issue detection and improved case resolution times through automation. Enhanced employee productivity and streamlined workflows.
- **Customer Satisfaction & Retention:** Improved customer satisfaction and enhanced retention due to better omnichannel communication and Al-driven support capabilities. Strengthened dealer relationships, contributing to higher loyalty and satisfaction.
- **Financial Impact from Global Expansion:** \$4M in expected revenue from expanding the solution to European markets. \$2M in potential additional revenue from further expansion into North American markets.
- **Improved Scalability:** The platform's modular design allows for easy expansion to different regions and verticals, providing a replicable solution for other manufacturers.



Microsoft Value and Success with the Solution

Tech Mahindra derives significant value and success using Microsoft Technology in delivering this solution, leveraging its comprehensive technology stack, including Microsoft Azure, Microsoft Dynamics 365, and the Microsoft Power Platform, to deliver significant business, operational and financial outcomes.

- Revenue Growth: The solution drives new revenue opportunities for Microsoft by expanding its presence in the automotive, OEM and manufacturing sectors, showcasing its technologies in real-world applications.
- **Industry Leadership:** It establishes Microsoft as a leader in digital transformation, particularly in the automotive and OEM industry with unique Al-driven solutions, regulatory compliance, and automation.
- **Strategic Partnerships:** The collaboration between Microsoft and Tech Mahindra positions both the players as strategic partners in driving the digital transformation of businesses.
- **Operational Benefits:** The solution drives cost savings, efficiency improvements, and enhanced customer satisfaction, demonstrating Microsoft's capabilities in Azure Al, Azure Cloud Infrastructure, and Azure Data Analytics.
- **Global Scalability:** The solution's ability to scale across different regions and industries allows Microsoft and Tech Mahindra to replicate the success in various markets, expanding their global footprint and solidifying their position as leaders in digital transformation solutions. As the solution evolves, Microsoft's technologies will continue to fuel innovation in areas like Al-driven customer care, automated warranty management, and regulatory compliance, paving the way for future growth opportunities.



Customer Success



The Client

A global leader in sustainable transportation, specializing in innovative, heavy-duty vehicles. With over 90 years of expertise, it pioneers eco-friendly solutions, focusing on reducing carbon emissions. Committed to transforming the automative industry through cutting-edge technology, operational efficiency, and a relentless focus on environmental sustainability, making it a key player in the future of transport.



The Challenge

The client faced challenges such as managing vast and complex safety data from multiple sources, disconnected systems for vehicle alerts, and manual processes for case and warranty management. Additionally, the client needed to meet strict regulatory compliance requirements for safety defect reports and recall communication, all while aiming to improve operational efficiency and reduce costs.



The Solution

Tech Mahindra implemented a comprehensive solution using Microsoft Azure and Microsoft Dynamics 365. The Safety Data Analytics Infrastructure (SDAI) was built to process vehicle safety alerts, while Microsoft Dynamics 365 enabled omnichannel customer care and case management. Automation, Al-driven insights, and seamless integration improved safety issue detection, recall management, and compliance, while also digitizing warranty processing for better efficiency.



The Impact

The solution led to significant cost reductions, such as \$50M in warranty savings, and automated over 50% of warranty claim processing, saving \$30-50M annually. Operational efficiency was greatly enhanced, enabling faster case resolution and improved regulatory compliance. The solution also improved customer care by providing Al-driven insights and omnichannel support, with global scalability for future growth.



Why Tech Mahindra

Customer selected us due to its proven track record, extensive expertise in the Automative sector, and proficiency in implementing Microsoft Dynamics 365. Our alignment with customer's organizational culture and its ability to deliver customized technological solutions focused on achieving strategic objectives were key factors in the decision. Additionally, our skilled professionals and successful implementation of Microsoft Dynamics 365 in Europe and North America region, demonstrated their capability to address challenges and facilitate a successful digital transformation.

Contact Us



For more information, contact the Microsoft Apps, Digital Enterprise Applications



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