

Groupe Renault Tested A Blockchain Project to Go Further In The Certification of Vehicle Compliance

XCEED is a digital project resulting from Groupe Renault's collaboration with major players in the automotive industry.

A full-scale trial was carried out with several equipment manufacturers at Renault's Douai plant.



Boulogne-Billancourt, 10 September 2020 - Groupe Renault has developed the **XCEED (eXtended Compliance End-to-End Distributed) blockchain project** to certify the compliance of all vehicle components, from design to production.

A tool to meet the growing demand for transparency

Designed and implemented in collaboration with leading automotive industry players, this tool enables greater responsiveness and efficiency at a time of ever-greater regulatory stringency. New market surveillance regulations came into force since September 1st, introducing enhanced regulatory controls for vehicles already on the market. The entire production chain thus has to adjust its structure to respond to the regulatory authorities within shorter timeframes.

Based on "Hyperledger Fabric" blockchain technology and deployed in collaboration with IBM, **the XCEED project is designed to track and certify the regulatory compliance of vehicle components and sub-components.**

A collaborative project with benefits for the wider automotive industry

Blockchain technology makes it possible for information to be shared and tracked by several actors, underpinning competitiveness and operational excellence in the automotive industry. It speeds up the information-sharing process, with data available in real time, and delivers greater efficiency in a network that is distributed rather than centralised.

With **XCEED**, blockchain is used to **create a trusted network for sharing compliance information** between parts manufacturers and vehicle manufacturers. The nature of blockchain technology means each party maintains data control and confidentiality, without compromising its integrity, while simultaneously increasing security and confidentiality. The security and confidentiality features offered by blockchain prompted **the automotive industry to come together for this pioneering initiative**.

Launched in 2019, XCEED is the result of collaborative work between automotive industry partners (Continental, Faurecia, Plastic Omnium and Saint-Gobain), the fruit of collective intelligence and an adaptive agile methodology that marked an unprecedented multi-company approach to data-sharing and project management.

Testing at Renault's Douai plant was used to consolidate the value and performance that blockchain technology delivers for the automotive industry, with **over one million documents archived and a speed of 500 transactions per second**.

*"The XCEED project we initiated is a powerful illustration of Groupe Renault's capacity to innovate. We are convinced that blockchain is a vector for transforming the automotive industry," says **Odile Panciatici, Blockchain Vice President, Groupe Renault**. "Blockchain technology really comes into its own in a vast ecosystem involving a number of different companies, providing a link between the partners' various processes, computer systems and databases. There are multiple uses for this type of technology in the automotive industry, where we have exchanges with countless actors from outside the company, such as suppliers, clients and independent distributors."*

To find out more about blockchain, a vector for transforming the future of the automotive industry, click [here](#).

About Groupe Renault

Groupe Renault has manufactured cars since 1898. Today it is an international multi-brand group, selling close to 3.8 million vehicles in 134 countries in 2019, with 40 manufacturing sites, 12,800 points of sales and after-sales and employing more than 180,000 people. To address the major technological challenges of the future, while continuing to pursue its profitable growth strategy, Groupe Renault is focusing on international expansion. To this end, it is drawing on the synergies of its five brands (Renault, Dacia, Renault Samsung Motors, Alpine and LADA), electric vehicles, and its unique alliance with Nissan and Mitsubishi Motors. With a 100% Renault owned team committed to the Formula 1 World Championship since 2016, the brand is involved in motorsports, a real vector for innovation and awareness.

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