

Anti-Counterfeit Solution for **fake** spare parts detection

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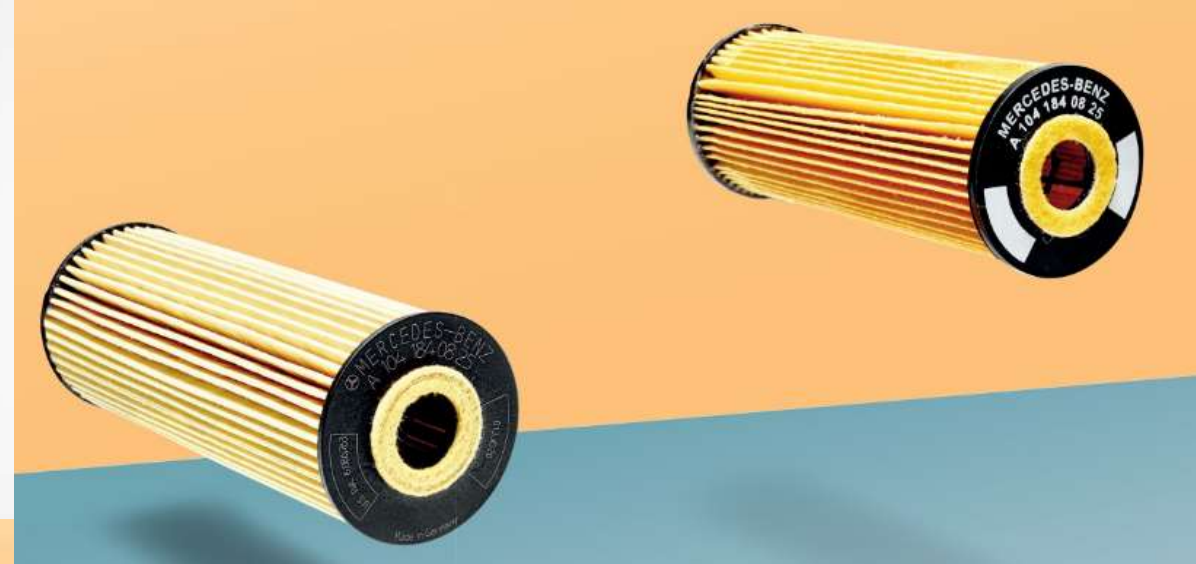
IoTBlocks

technology from



The Problem (1/2)

Counterfeit parts look more authentic than the original parts



The Problem (2/2)

...Until an **accident** like this happens

putting the **safety** of unsuspecting customers in serious danger



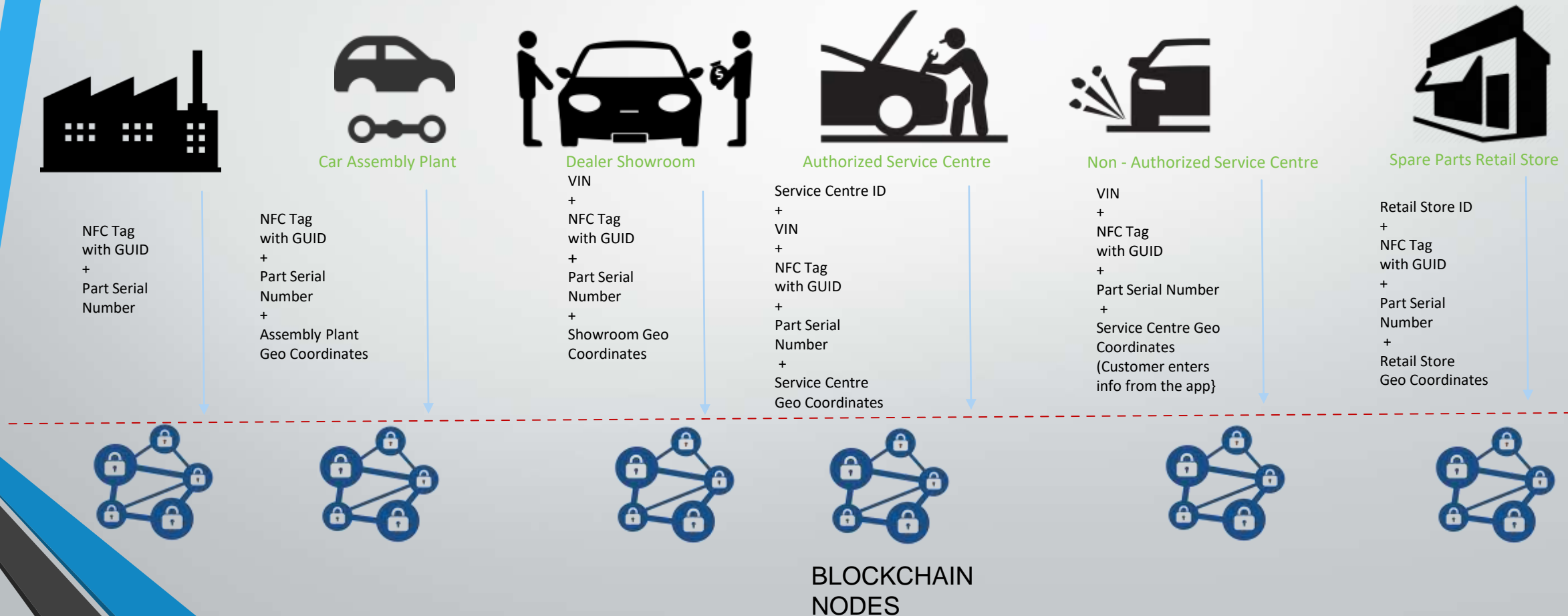
A guy is fined for driving a fake Mercedes Car and crashing it into a sports car
(Image courtesy : CarNewsChina.com)

... ultimately affecting **brand reputation** and the underlying sales figures

The Solution

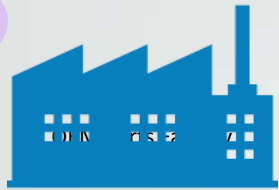
Tracking the spare parts from the “first-mile” to the “last-mile” using Blockchain

- Attributes associated with Spare Parts movement stored onto a Blockchain to maintain authenticity and to make it tamper proof



The Solution Workflow

First Mile



OEM/Local Spare Parts Factory

NFC SmartTags Sealed on the inner side of Spare Parts packaging

Last Mile



Spare Parts Retail Store

Customer is able to verify authenticity via NFC enabled mobile phone



Logistics

Ability to track diversion during the transit



Car Assembly Plant

Verify spare parts authenticity



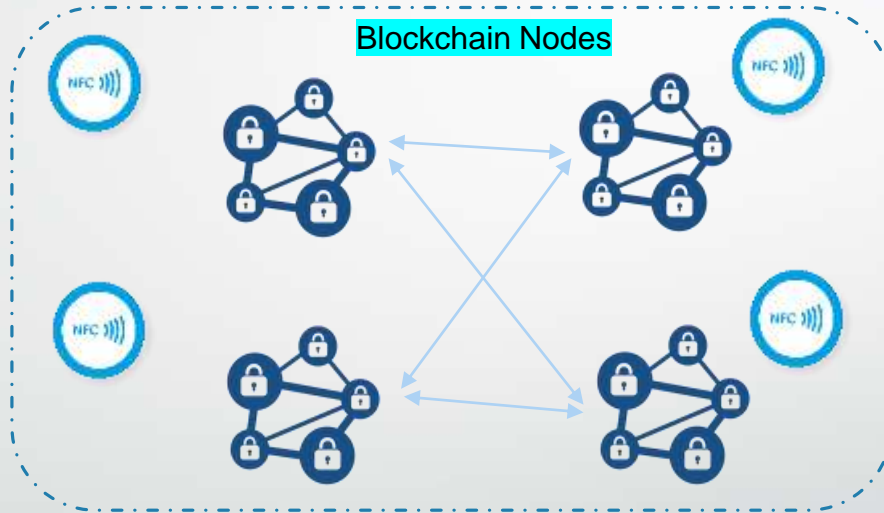
Authorized Service Centre

Service Personnel are able to verify authenticity via NFC enabled mobile phone



Non - Authorized Service Centre

Customer is able to verify authenticity via NFC enabled mobile phone



The Solution – Empowerment and Transparency

Empowering the following stakeholders to provide a single “source of truth”

The Customer | Customs Officials | Brand Protection Team



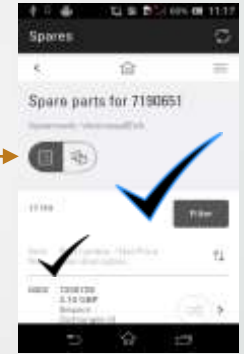
Customer scans the part



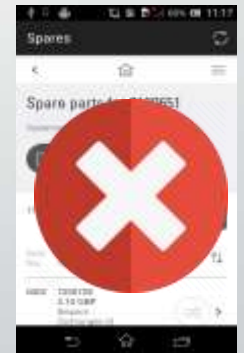
Customs officer scans the part



Brand Protection officer can do a thorough history check via Web App



Genuine Part



Counterfeit Part



BLOCKCHAIN
NODES



The Technology Platform

A permission based Blockchain

- Access provided to multiple stakeholders with multiple Blockchain nodes on a DMZ platform



OEM Parts
Manufactures Node



Dealer Showrooms Node (City wise
/ Country wise)



Assembly Plants Node



Service Centres / Retail Shops Node (City
wise / Country wise)

Benefits



Increases
Trust and
Customer
Safety



Provides
Authenticity



Sustain
Customer
Loyalty



Enhances
Supply chain
integration