



ANAX ADLER LTD

PROTECTING PEOPLE AND ASSETS

IOT LOCKS IN FUEL TRANSPORTATION LOGISTICS



“SMARTER, TAMPER EVIDENT FUEL TRANSPORTATION”

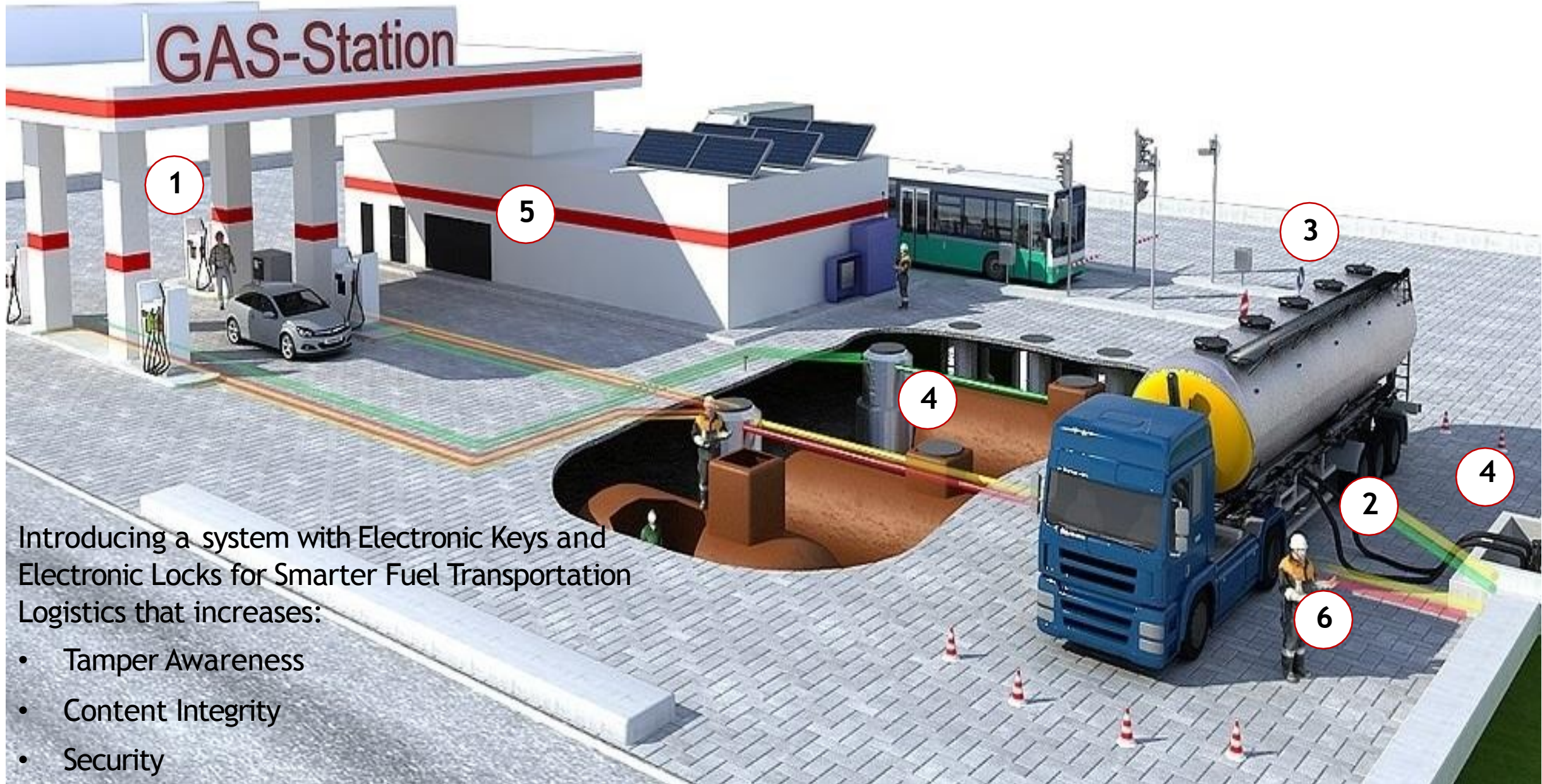
Using Electronic Keys and Locks

Tampering Awareness of Meter, Pump and Tank Manhole in Gas Stations and Fuel Tank Trucks

Preventing Data Skimming in Automated Payment Gas Stations Pumps

Securing Fuel Valves and Automation Cabinets in Field Installations

IOT LOCKS IN FUEL TRANSPORTATION LOGISTICS



Introducing a system with Electronic Keys and Electronic Locks for Smarter Fuel Transportation Logistics that increases:

- Tamper Awareness
- Content Integrity
- Security

IOT LOCKS IN FUEL TRANSPORTATION LOGISTICS

GAS STATION FUEL PUMPS



Electronic Locks and Keys are replacing Mechanical Locks and Keys thus providing Awareness of Meter, Pump and Tank Manhole Tampering in Gas Stations as well as Preventing Data Skimming in Automated Payment Gas Pumps.



1



Traditional Mechanical Locks and Warranty Seal Stickers are very easy to tamper with and it is very easy to reproduce copies of mechanical keys and Warranty Seal Stickers.

Mechanical Keys and Locks cannot keep records of who has operated the lock and when.

Electronic Keys and Locks cannot be copied like mechanical ones and offer traceability, control and security of operation.



IOT LOCKS IN FUEL TRANSPORTATION LOGISTICS

FUEL TANKS (TRUCKS/GAS STATION)



Electronic Cable Padlock Seal replaces Mechanical Cable Seals at Fuel Tank Truck (Bottom Loading/Unloading valves and/or Over the Top Manholes)

Each Electronic Cable Seal Padlock has a unique electronic iD number that can correspond to one tank compartment/customer. This unique electronic iD cannot be altered and can be recorded to the invoice.

The electronic key opens only the programmed padlocks at specified time and date set by the order dispatcher.



Electronic Cable Padlock Seal:

- is re-usable providing considerable cost reduction over time compared to mechanical cable seals.
- cannot be cloned like mechanical seals providing considerable increase in Fuel Tank content integrity, tamper awareness and security.

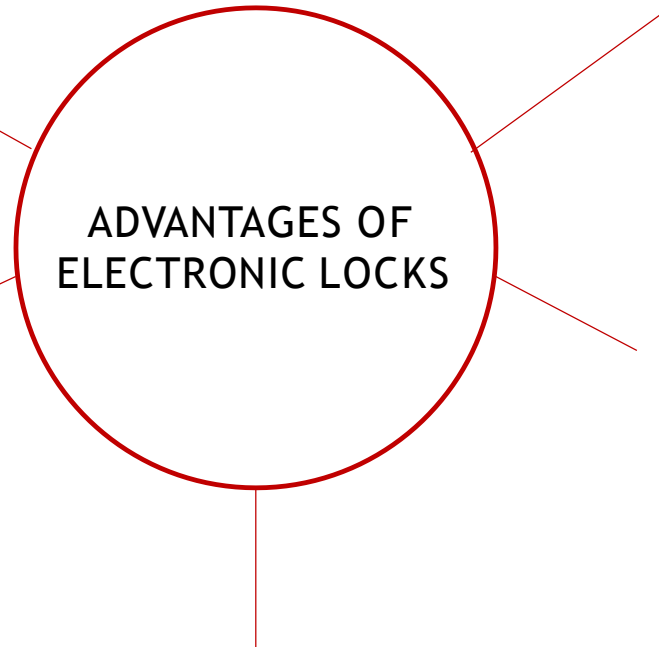


Replaces Mechanical Padlocks at Gas Station Loading Valves with padlock equipped with electronic lock that opens with electronic key.

IOT LOCKS IN FUEL TRANSPORTATION LOGISTICS

- The electronic locks are free of wires and cables, so they can replace traditional mechanical locks easily due to the wide range of locks available

- The electronic locks do not contain a battery and are therefore maintenance free and can bear severe environments



- Each electronic lock and padlock have a unique identification number.

- Each electronic key has a unique identification number.

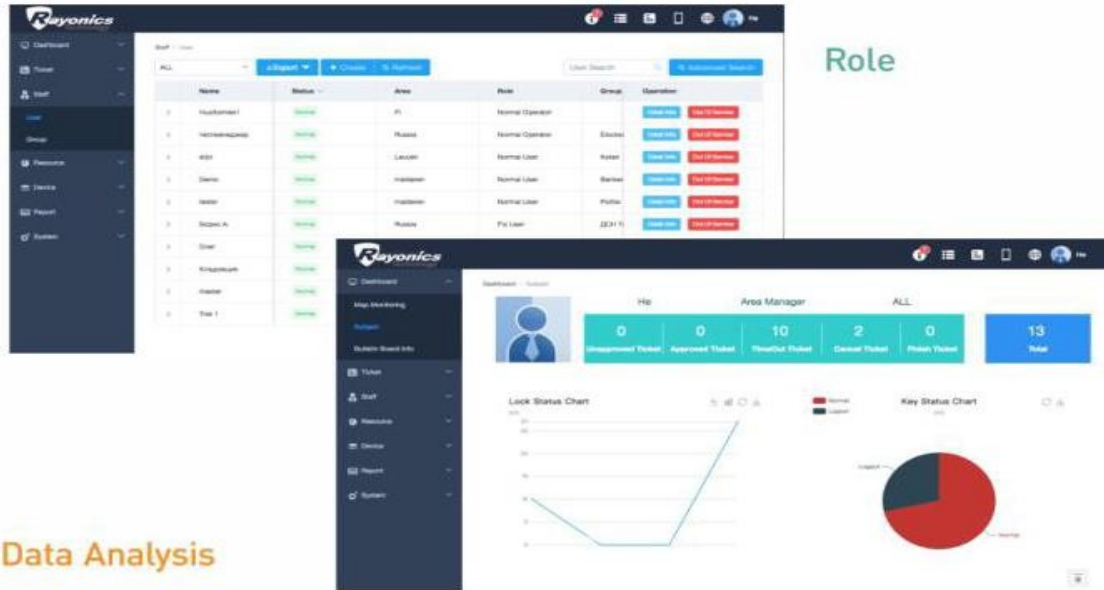
- System Administrator and/or Gas Station Operator has always an audit trail of which key opened which lock/Padlock and when.

IOT LOCKS IN FUEL TRANSPORTATION LOGISTICS



IOT LOCKS IN FUEL TRANSPORTATION LOGISTICS

Management Platform



Role

Data Analysis

- B/S structure software, visit the system according to permissions;
- Monitoring Software Platform; Real-time data shown to ensure system security;
- Lock Management; installation according to site latitude and longitude;
- Permission Management; set permission to locks by hours;
- Event Audit; lock records, electricity transfer, maintenance ticket, bulletin, photo inquiry;
- Open Interface: SDK provided;
- Ticket Management System: real time for ticket application.



App Layout



Map

- IOS App and Android App both existed;
- App connected with locks/keys by Bluetooth;
- App can prompt the lock location, latitude and longitude and other
- Push notifications to operator/maintainer;
- Real time feedback lock status and records.



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