LIFT
LIVE MONITORING

PROBLEM

The Civil Aviation Authority requires airport management companies to meet availability levels for passenger lifts. If airports fail to meet the required availability levels, the CAA imposes fines. There is a similar system used by Transport for London to measure lift service partner performance.

The ability to monitor failure points and improve lift reliability is virtually impossible given that range and age of lifts installed across the transport network in the UK.

CHALLENGE

The challenge was to create a communication system that could collect data direct from lifts in real time, with an analytical platform to detect variation in the lift normal running signature and raise pre-set alarms prior to lift failure.

As the communication system would take direct feed from the lift controller, the solution must protect the lifts from cyber threats an unauthorised access.

LAST DATA RECEIVED:	23/02/2024 11:03:00 GMT		
Floor Position			3rd
Floor Destination			3rd
Move Direction			Stopped
Device Speed			0 mm/s
Travel Time			19.88 s
Door Status			Closed
Door Open Time	3.22 s	min 1.12 s	max 3.65 s
Door Close Time	3.22 s	min 0.84 s	max 3.93 s
Lock Dwell Time	0.14 s	min 0.13 s	max 0.42 s
Alarms			Normal
Lift Cycles (24h)			322
Door Cycles (24h)			358

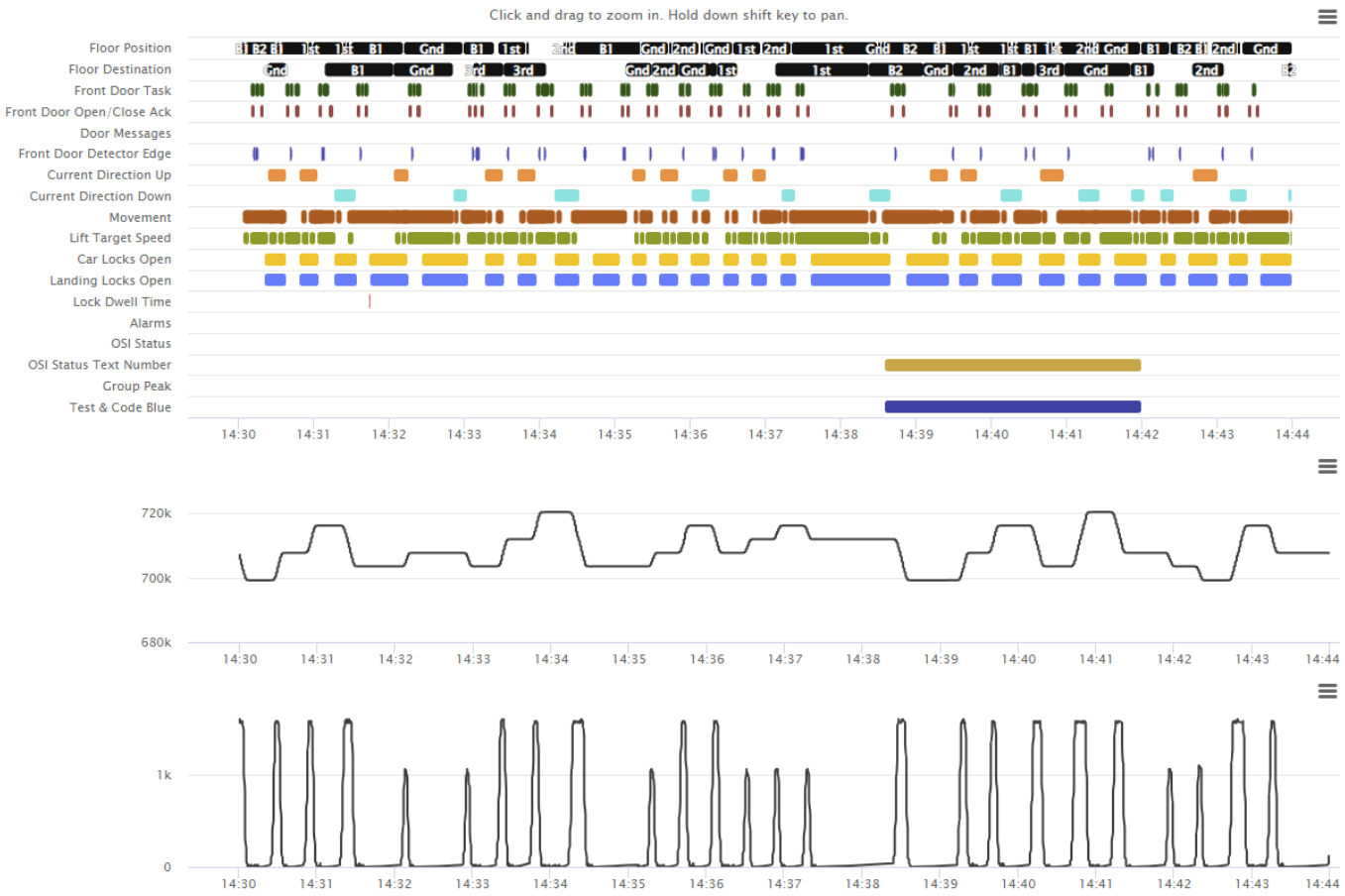
SOLUTION

Our data harvester connects into the lift controller, taking constant lift movement element values, alarm status and health condition, which is fed to our secure cloud-based servers. After the data is processed, the lift display, together with real-time current status and graphs showing historic trends is available on any web enabled device, with username and password protection.

Data is transferred through a tightly controlled, one way communication channel that prevents any access back to the lift unit being monitored.

BENEFITS

- Allows pre-emptive maintenance actions prior to lifts failing in service.
- Reduces unplanned maintenance actions.
- Eliminate business disruption costs.
- Eliminates CAA/TfL fines.



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