Brighton & Hove Bus Company, UK
Cloud Migration Project

Industry
Bus

Challenge
Integrate metro and bus networks

Solution
Trapeze Intelligent Transport System (ITS)

Overview

🚌 800 buses

🖥 1,500 RTPI Displays

Results

✓ Downtime minimised

✓ Recovery Time Objective (RTO) <15 mins

✓ 263 buses and 285 signs migrated to the cloud

Background

Brighton & Hove is renowned for its singular focus on ensuring every journey is an enjoyable one for the travelling public – as evidenced by the operator being recognised as 2017 Top City Operator at the UK Bus Awards and runner-up in 2020.

Objective

To stay at the cutting edge of what's possible in public transport, Brighton & Hove worked with Trapeze to migrate their ITS system to the cloud.

The benefits of transferring systems to the cloud are numerous, and include:
• Scalability and flexibility
• High availability
• Increased security
• Cost efficiency

Trapeze is committed to an innovative cloud-based solution. With this, we can deliver improved SLAs and KPIs and deliver a hosting service that is easy and convenient to run, as well as improved security and data replication.

Solution

With 263 buses and 285 signs to migrate to the cloud, it was important to Brighton & Hove that the migration was completed without impacting operations. Trapeze completed the shift to the cloud in just one day, with minimal downtime for Brighton & Hove, safeguarding their reputation and the passenger experience.

To ensure smooth migration with the possibility of switching back to on-premise hosting, Trapeze ran the services in mixed mode. Some vehicles and on-street digital displays were connected to the cloud environment and some were connected to the on-premises environment, then gradually moved from on-premises hosting to cloud hosting.

The migration of vehicles and on-street digital displays was transparent to service controllers as all vehicles, irrespective of being connected to on-premises or cloud, were monitored from the same Service Controller Application.

Results

The primary goal of Disaster Recovery (DR) is to minimize downtime and ensure the continuity of software services. By implementing DR plans, organizations can mitigate the impact of these events and maintain critical operations.

By tailoring the DR approach to the specific needs of Brighton & Hove buses, Trapeze created a robust and cost-effective strategy with an Recovery Time Objective (RTO) of less than 15 minutes and a Recovery Point Objective (RPO) of zero.

> "
> *Trapeze did a lot of work with our IT department to make [the migration] possible. We were given access to the test environment, which was very reassuring. I feel we have certainly made the right choice by switching to the AWS cloud. I would like to thank Trapeze for not just their help but also their patience. They certainly went out of their way to make this successful.* "

Steve Lane - GPS Officer, Brighton & Hove Buses