

# **SQL Data Modernization**

Modernizing SQL Database hosting FASTag application to improve performance and reduce cost

- 35% Cost Reduction
- 30% Improved Performance
- 300k USD Net Saving Per Annum

Nation-wide electrical toll collection system reduces cost and improves performance by leveraging G7 CR Data Modernization Services.

## At a glance

FASTag is a robust system used for issuing FASTag and collecting tolls at various highways managed by the National Highways Authority. The database serving such highly volatile data needs to be highly efficient.

### **CHALLENGES**



- The Data Size was too large
- · The system design was not built for scale
- Disaster recovery service has high RPO/RTO
- The Customer had to purchase an additional license for scaling

# **Key Highlights**



Large databases



9 IB
Size for each database



**2800+** Tables



Maximum downtime acceptable for data migration

### **G7 CR SOLUTION & APPROACH**



Assessment

G7 CR carried out an assessment of the Data estate, the table structures and Database design (including features in use).

### **Planning**

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G7 CR meticuloiusly planned the changes needs to modernise the database including moving of reporting services to a separate instance, consolidation of logs & carefully planning the IOPS for data migration without impacting the production system.

#### **Execution**

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G7 CR carried out optimization activity of the source database, assiting Customer in optimizing expensive queries, consolidating & claening up log files, built datapipelines to efficiently migrate data to source system (parallel & batch copy operations), building Change data capture system for copying differential data, Load testing the system & Cutover

#### **G7 CR TECHNOLOGIES**

THINK CLOUD, THINK G7CR



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#### **RESULT**



- 35% cost reduction (\$300 K saving per annum)
- 30% improvement in performance
- RPO/RTO >15 minutes