



One of the largest Banks in the Middle East embarked on the journey of migrating its retail core banking system from TC4 to TCS BaNCS. At the same time, implement digital banking channels and migrate the underlying architecture of EFTS (Electronic fund transfer system).

300+  
TPS

Holistic  
Performance  
Testing Approach

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# Holistic Performance Engineering – Core Banking System

One of the Largest Banks in Middle East

## CHALLENGE

- Understand the complex integration of the core banking system with the peripheral systems
- No documentation of 30+ peripheral applications with the core banking system
- Co-ordination with multiple teams and stakeholders for creating the non-functional requirements (workload model)

## SOLUTION

- Established non-functional requirements of 30+ peripheral systems of the Core Banking system
- Conducted component-level load testing covering all the critical APIs, web services
- Conducted Silo and holistic performance testing (load, stress, and endurance) covering all the critical peripheral systems, including Switchware, SWIFT, RTGS, EFTS
- Conducted future readiness performance testing covering the business growth for the next 5 years
- Created performance testing regression test pack and integrated with CI/CD pipeline

## RESULTS

- Critical APIs and web services started responding in less than 200 milliseconds under peak load
- Meet the performance SLAs in terms of the concurrent users, throughput and response times for the core banking system, and the peripheral systems
- Future-ready for the next 5 years' business growth