

# Temenos Performance Benchmark 2025

Sustainable scalability for banking technology  
in the age of AI

temenos



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# Introduction



Performance is everything in banking technology; yet it is not the only factor. How performance is achieved is now just as important as the performance outcomes themselves. Banks need systems that are fast, robust, secure and scalable, as well as sustainable and ethically responsible. Together with Microsoft, we again put the Temenos Banking Platform to the test.

As a provider of technology to thousands of banks globally, we have a fundamental role to play. Since 2019, the Temenos Performance Benchmark (“the benchmark”) has served as another tool to help us understand how our technology is performing and whether our clients’ and their customers’ needs are being fulfilled. Offering a real-world, production-scale view of our platform’s throughput, resilience, and efficiency, the results help to guide our innovation agenda and long-term ambitions.

Historically based on maximizing performance, measured in transactions per second (TPS), we evolved the benchmark last year to include environmental impact, reflecting the growing importance of carbon-conscious computing in banking. We demonstrated that a more efficient code and leaner architecture can reduce demand for technology infrastructure, processing power, and energy, while also improving performance.

This has redefined the scope of the benchmark, but we are also cognizant of the intensifying demands of technology in general, including AI, regulatory scrutiny, and the pace of digital transformation.

As such, this year we were not necessarily aiming to further increase transaction throughput, but to demonstrate tangible efficiency gains in terms of hardware, in an ambitious but real-world scenario.

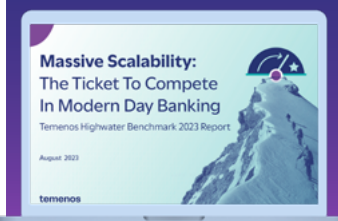
AI is having a profound impact on banking processes, from real-time fraud detection to hyper-personalized customer experiences - but requires high-throughput, low-latency platforms. At the same time, regulations like the Digital Operational Resilience Act (now effective across the EU), the Federal Financial Institutions Examination Council Guidelines in the US, and the Australian Prudential Regulation Authority, are raising expectations around system resilience, availability, and continuity.

Every year we examine the broader market environment to make sure our benchmark methodology tests our performance against evolving standards and norms. We never rest on our laurels and in 2025 put our full stack to the test to include digital and AI workloads.

We are delighted to report new improvements for the 2025 Temenos Performance benchmark, in partnership with Microsoft.

## Massive scalability: A record benchmark for modern banking

In 2023, Temenos achieved a record-breaking 150,000 TPS, proving the Temenos Banking Platform’s ability to scale for Tier 1 embedded finance models. The scenario simulated a large retail bank that launched a Banking-as-a-Service proposition to open the door to 50 brands. These results confirmed that we support both outright performance and linear scalability as banks and non-banks expand into new financial services.



[Learn about the 150,000 TPS Highwater Benchmark](#)

# The Temenos Banking Platform

We have been developing the Temenos Banking Platform for over 30 years, and the outcomes of the 2025 Performance Benchmark certainly reflect this. Three decades of unrelenting efforts to meet ever-evolving demands and standards on a single platform, as a single piece of code. This allows all our clients to always upgrade to the latest version, and therefore leverage the technology advancements highlighted in this benchmark.

Supporting banks of all types and sizes in all regions, our clients benefit from this single code base as well as 1,800+ pre-built banking processes across Retail, Business and Corporate Banking, and Wealth Management. We are proud to offer the broadest breadth and depth of banking services available on any platform.

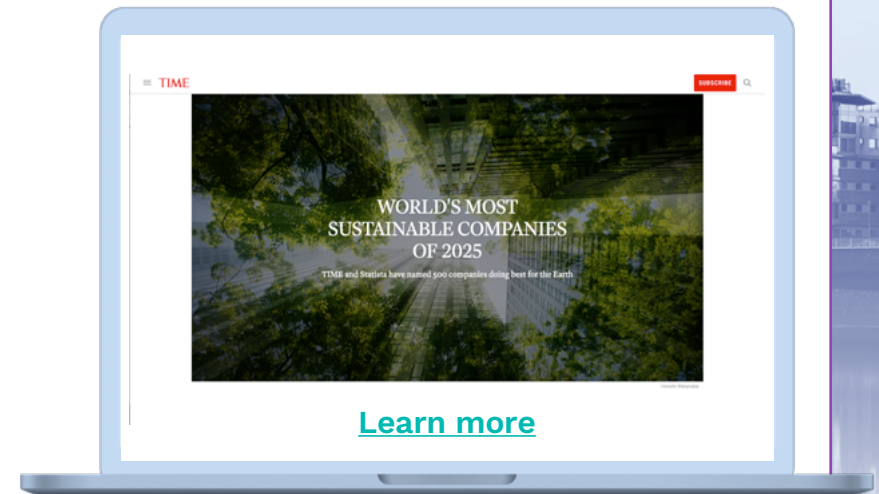
Banks are given full flexibility to run the Temenos Banking Platform agnostically - on-premises, in the cloud, or in a hybrid setup. The platform works with major providers like Microsoft Azure, AWS, and OpenShift and is also available as Temenos SaaS, our end-to-end banking service supported by Azure and AWS.

## Ongoing and recognized commitment to sustainability

This year, we were recognized by *TIME* as the **fourth most sustainable company in the world**, underscoring our commitment to environmental and social responsibility. This reflects our ability to embed sustainability into our operations and software products, and to extend that value to banks worldwide.

The *TIME* ranking evaluates the world's largest companies across over 20 key performance indicators, including **ESG transparency, environmental impact, employee wellbeing, and corporate governance**. Our high placement demonstrates our holistic and measurable approach to sustainability.

Further reinforcing our leadership, we consistently earn top ESG ratings from agencies such as **S&P Global, CDP, EcoVadis, and Sustainalytics**. For our clients, partnering with us enables meaningful progress towards their ESG goals, helping to reduce their carbon footprint, minimize environmental impact, and support more inclusive, equitable societies.





# The 2025 Performance Benchmark

The Temenos Performance Benchmark measures the performance and scalability of our platform year over year, highlighting improvements and advancements in elasticity, transaction throughput, response times, and overall efficiency and sustainability. It also helps us to detect areas where we can do more, support evolving cloud-native standards, and potentially identify new metrics to measure.

As such, the benchmark helps to guide our innovation and ensure we can continue to meet our customers' demands for high performance, operational efficiency, and sustainability.

Like last year, in 2025 we replicated the needs of a retail bank with our SaaS Retail Enterprise Service (RES) - a pre-packaged set of capabilities for end-to-end retail banking.

Again, we tested RES on Microsoft Azure, incorporating all the technology enhancements we made throughout 2024 and in early 2025 that are part of our annual release (R25). We wanted to evaluate whether these innovations improved sustainability by reducing hardware requirements or increasing transaction throughput - with the same infrastructure used in last year's benchmark.

The goal was ultimately to demonstrate the tangible benefits of our improvements. We showed that with the same hardware and solution (RES), we processed more transactions with reduced hardware demands, confirming that our technology has evolved and contributed meaningfully to our sustainability goals.



## The 2025 benchmark scenario

As banks increasingly adopt AI for financial crime mitigation, application development, and operational efficiency, we've integrated AI workloads into the 2025 benchmark. This allows us to test scalability and performance, helping banks understand the infrastructure and capabilities needed to run these advanced applications reliably and efficiently in real-world environments.



**25 million**  
customers



**25 million**  
savings accounts



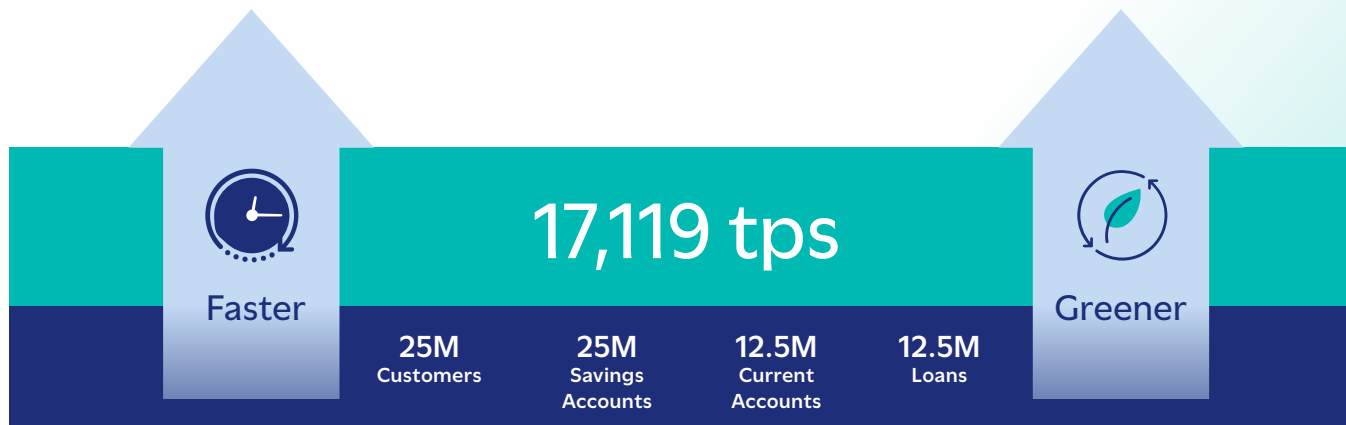
**12.5 million**  
current accounts



**12.5 million**  
loans

For the first time, we also examined our Digital Online Banking and AI workloads – the latter referring to our newly launched Temenos FCM AI Agent.

# The Results: Temenos Performance Benchmark 2025



**900 users** were able to access the application per second, with **80% performing enquiries**, and **20% processing transactions**.

**Over 50,000 users** accessed the application over a peak hour. During this time, enquiry response time was within **0.5 seconds** and transactions response time was within **1 second**.

Like-for-like efficiency improvement compared to the previous release.

**3.7%**

additional TPS for Temenos Core

**46.3%**

Fewer cores at the application server, for Temenos Core

**18%**

Fewer cores at the ACA layer for Microservice

**15%**

Fewer cores on the database side for Microservice

- ✓ Retail Enterprise Service (Temens Core)
- ✓ Temenos SaaS
- ✓ Holding Microservice
- ✓ Microsoft Azure



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# 2025 Performance Benchmark Highlights

## What changed

This year, we launched Financial Crime Mitigation (FCM) AI Agent and Product Manager Copilot, powered by Microsoft Azure OpenAI.

This introduced AI queries to our core banking system that we did not have last year. However, our technology and architecture improvements meant we could handle the additional workloads using the same amount of hardware.

Microsoft Azure shifted from Intel X86 to ARM-based Cobalt 100 chipsets.

Further improvements were made to the near-time ingestion framework, reducing the time it takes to record business events in downstream systems.

Architecture simplification also removed event streaming platforms from the application architecture, reducing hardware and cost.

This year, we dedicated a portion of the benchmark to test our Digital Banking, observing that it can scale up to 50,000 users during a peak hour, with enquiries response time within 0.5ms.

We migrated our code from Java EE 8 to Jakarta EE 10 to be able to leverage the benefits of Wildfly32 and above\*.

\*Although significant improvements were delivered using Jakarta EE 10, we also researched a setup with “Servlite”, which removes the need for Wildfly in our technology stack. In a second test of the benchmark, Servlite gave us a 20% reduction in memory use, and 15% reduction in CPU.

## Why it matters to banks

More and more banks are using Gen AI to boost their core banking, enabling faster product innovation, personalized customer experiences, and greater efficiency.

Being able to support additional, AI workloads without disruption is therefore critical for banks.

Banks benefit directly as ARM Cobalt chipsets cost less than Intel X86, with stronger performance too.

This minimizes the time it takes for integration events to travel from core banking to downstream systems (such as transactions).

Banks benefit from near-real time, and don't need to pay for third-party event streaming platforms.

Highlights our end-to-end testing of front-to-back-office capabilities.

Banks directly benefit from performance improvements available in the latest versions of the Wildfly application server.

By removing Wildfly from our software, we made it lightweight and suitable to run in serverless deployments.

We are fine-tuning Servlite for further efficiency improvements.

In addition to the above, we continuously enhance the Temenos Banking Platform, driving ongoing technology and product improvements to ensure banks benefit from faster performance, scalability, and reduced environmental impact. These advancements also contributed to the 2025 Performance Benchmark results.

# Rising Demands, Ongoing Decarbonization

Resilience and performance are table stakes and sustainability has become incredibly important to our clients and the wider banking industry. Every banking interaction involves software and hardware operations that leave an environmental footprint – so we do everything we can to minimize these impacts for our clients as we deliver banking innovations and enhance our operations.

The fact we have always decoupled our technology from functionality also means we can continually make improvements without disrupting our clients' business operations, as they can choose to upgrade their capabilities when it makes sense for them.

Since the 2024 benchmark, the banking landscape has become more open than ever to experiment with AI. In fact, 75% of banks are exploring Generative AI (Gen AI) and among those already deploying Gen AI or exploring opportunities, 43% plan to invest more in 2025 than last year.<sup>1</sup>

This momentum is adding pressure on performance and scalability to support AI workloads sustainably. That's why this year's benchmark findings are even more compelling – they reflect real AI workloads and highlight our ability to innovate whilst minimizing resource use.

We achieved 17,119 TPS compared to 16,409 last year – an additional 3.7% – but the real headline is the fact these required 46.3% fewer cores at the application server and 6.8% fewer cores on the database side.

With this, we have again demonstrated that with a more efficient code and a leaner architecture, not only is performance enhanced, but demand for infrastructure, processing power, and energy is reduced. As was the case last year, this is all down to engineering improvements and architectural developments across the Temenos Banking Platform.

<sup>1</sup>Hanover Research, April 2025, for Temenos



The banking industry plays a vital roll in the decarbonization of societies.

By harnessing Temenos SaaS and Microsoft Azure, in 2021 Canada-based EQ Bank achieved savings of between 93.53% and 97.05% in metric tonnes of carbon dioxide emissions compared to running an on-premise alternative.

Learn how banks can dramatically reduce their carbon footprint, just like EQ Bank:

[Learn more](#)



# About our Benchmark Partner

Every Temenos Performance Benchmark is a collaborative project. As such, we are thankful to the supporting teams of Microsoft Azure for delivering these landmark results.



In 2011, Temenos and Microsoft were the first in the industry to bring core banking to the cloud. Today, the partnership supports financial institutions that leverage the cloud around the world, including organizations such as Judo Bank, EQ Bank, Virgin Money Australia, ANSA, Banco de la Nación del Peru, PBCom, and Varo Bank.

The combination of Temenos SaaS and the Azure Cloud Platform enables banks around the world to leverage modern and trusted cloud technology that can live up to specific requirements in regions, including data regulation, security, and compliance.

[Learn more about Microsoft Azure](#)



# The Temenos Benchmark Team



Meet the Temenos Performance, Benchmarking and Sizing Team:



**Arun Kumar  
Ramasamy**

Senior Principal  
Product Engineer



**T Mohanraj**

Associate Vice  
President



**Rameshkumar  
Rajasekaran**

Engineering  
Manager



**Rakesh Karripot  
Balakrishnan**

Senior Principal  
Product Engineer



**Mahalakshmi P**

Principal Product  
Engineer

Do you want to learn more about the Temenos Performance Benchmark?  
Please don't hesitate to contact the team, or [contact us here](#).

Authors:

**Eliane Chavagnon** – Fintech Content Writer at Temenos

**Roel Jansen** – Solution Marketing Director at Temenos

Appendix

# Technology Report





# Introduction

The 2025 Benchmark was carried out to demonstrate an improvement in the performance and scalability of Temenos product offerings compared to the previous year. It also highlights the sustainability of the product and incorporates the innovative technologies developed over the past year and implemented on the Microsoft Azure Platform.

The Temenos Digital Online Banking Application was successfully accessed by concurrent users, including the combination of transactions and enquiries across various API endpoints. All APIs responded within the expected performance thresholds, indicating stable and reliable application behavior under the given load.

## Authors

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## Acronyms:

Abbreviation/ Term	Expansion/Description
ACA	Azure Container App
MS	Micro-Services
API	Application Programming Interface
TPS	Transaction Per Second
ms	milliseconds
ALT	Azure Load Testing
SEAT	System Engineering Automation Tool
AKS	Azure Kubernetes Service
RES	Retail Enterprise Services
SLA	Service Level Agreement
OLB	Online Banking
GAI	Generic Accounting Interface
ARM	Advanced RISC Machine
SKU	Stock Keeping Unit

## Executive Summary

- Overall, 17,119 TPS were achieved.
- 15,579 TPS on Enquiries (Holding Microservices, Temenos Core (Also known as Temenos Transact)).
- 1,540 TPS on Transactions (RES-Temenos Core).
- For the digital channel, the following metrics were achieved.
- A total of 900 concurrent users were able to access Temenos Digital Online Banking Application, with 80% performing enquiries and 20% processing transactions.
- More than 50000 users accessed the application over a peak hour
- During this load, enquiries response time within 0.5 seconds and Transactions response time within 1 second.



# Temenos Performance Benchmark 2025 Setup

## Success Criteria – Temenos Core & Microservice

In this exercise, a transaction mix of 90% Enquiries and 10% Transactions was used by targeting 15K TPS, with the detailed breakdown provided in the table below.

## Dataset

### Temenos Core:

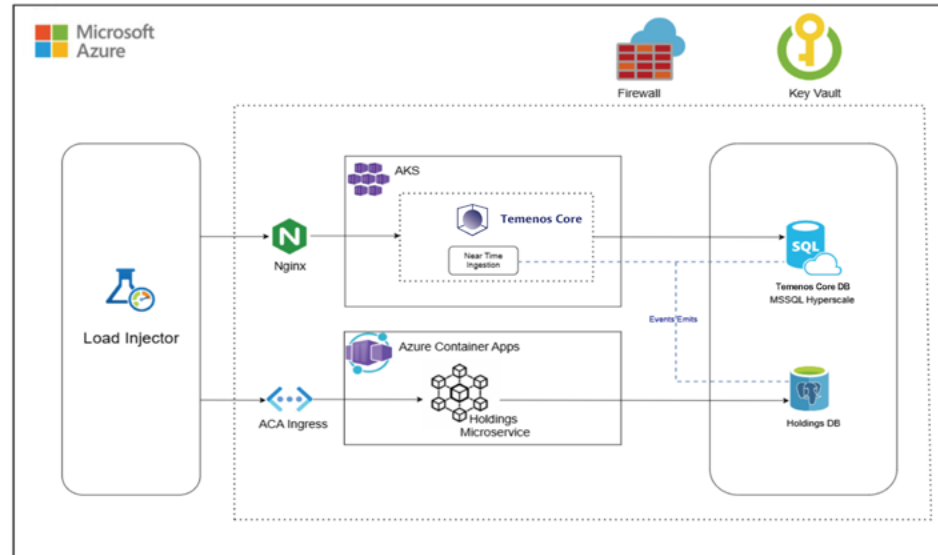
- 25 million Customers, 25 million Savings Accounts, 12.5 million Current Accounts, and 12.5 million loan Accounts.
- A total of 6 transactions were loaded for each Savings and Current Account.
- All the loans were created and disbursed to customers' savings accounts.

### Temenos Digital:

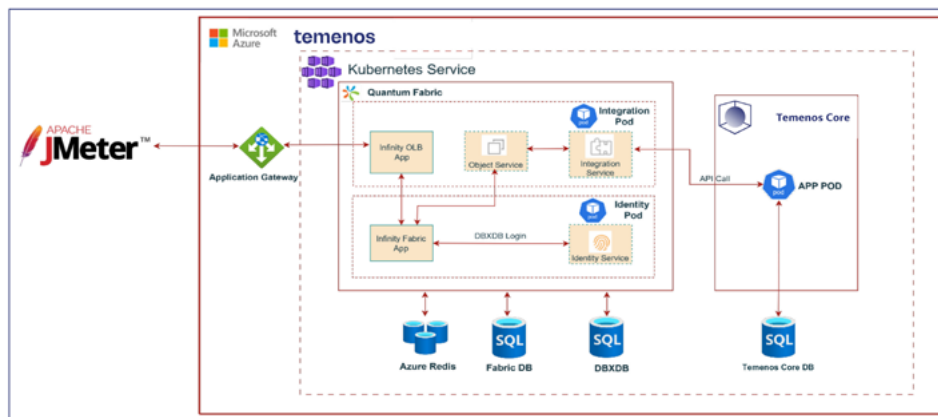
- 1 million Customers, 1 million Savings Accounts & 1 million Current Accounts for each Customer.
- A total of 6 transactions were successfully loaded for each account.

## High Level Architecture

### Temenos Core and Microservices



### Temenos Digital



## Product Details

### Temenos Core:

Retail Banking Enterprise Services (RES) is a ready-to-deploy solution that covers the full range of retail banking operations, combining Temenos Digital, Temenos Core, and Financial Crime Mitigation (FCM). It includes preconfigured products for accounts, lending, deposits, and multi-currency services, helping banks accelerate innovation and respond quickly to market needs. The solution is deployed on AKS, integrated with an Azure SQL database.

### Holdings Microservices:

Holdings MS is the solution for holding the accounting entries & customer account balances, and this microservice is used to perform enquiries on account balances, account transactions list, loan balances, loan transactions list and loan details as part of this benchmark. The microservice is deployed in the Azure Container Apps, integrated with Azure PostgreSQL as a database.

### Temenos Digital

The Temenos Digital Web Channel application is a combination of Retail Banking and Business Banking. This is a typical banking application that helps customers to perform their banking activities like logging in, viewing balances, checking transactions, transferring funds, and logging out. The solution is deployed on AKS, integrated with an Azure SQL database.

## New Technologies Implemented Benchmark 2025

Technologies	Summary
ARM and ARM Cobalt	ARM and ARM Cobalt refer to Microsoft’s underlying architecture for the SKU, offering better performance compared to the Intel architecture.
JDK & Wildfly	The version has been upgraded from wf26jdk11 to wf32jdk21 for base image
Jakarta	To run the Java Platform, Jakarta has been replaced with Javax.
Near-time Ingestion	In near-time ingestion, the first class business event emitted from the Temenos Core is directly ingested into the holdings database, updating account balance & transactions without using an event stream platform
One Container & Direct Connect	This technology is set up within a single container, where both the IRF-Provider and the Browser Web are hosted.
Servlite	Servlite is a lightweight wrapper around an HTTP server, providing a simplified and structured packaging format for Temenos Core applications. At its core, it utilises a minimal HTTP server, with the current version employing Undertow as the HTTP server implementation in Java. This package is implemented as a Java library, designed for deploying web applications.

## Hardware & Software Specifications Benchmark

### Hardware & Software Specifications – Temenos Core & Microservices

Component	Node Configuration	Node Configuration	
		vCPU	Memory (GB)
Temenos Core App	Standard D96plds_v6 (96 vCPU, 192 GB memory)	6	12
Holdings Microservice	General Purpose Dedicated D-16(16 vCPU, 64GB memory)	1	2

### Hardware Specification – Temenos Digital

Namespace	Pod name	Configuration	
		vCPU	Memory (GB)
Temenos Core App	APP	2.5	11
	API Portal	2	2
	Console	2	4
	Engagement	2	2
Fabric	Identity	3	8
	Integration	4	16
	API Portal	2	2
	Console	2	4

Database Layer

Application	Database	Compute		Storage	vCPU	Memory
		Tier	Size			
Temenos Core	Azure SQL Database	Hyperscale PRMS	Premium series	Hyperscale SSD (1.95TB)	128	625
Holdings MS	Azure PostgreSQL	General Purpose	Standard_D96ds_v5	Premium SSD (626.6 GB)	96	384
Temenos Digital - Fabric	Azure SQL Database	Hyperscale Gen5	Standard-series (Gen5)	75.72 GB (Hyperscale SSD)	2	10.4
Temenos Digital - DBX	Azure SQL Database	Hyperscale Gen5	Standard-series (Gen5)	204.36 GB (Hyperscale SSD)	8	41.5
Digital – Temenos Core (Integration)	Azure SQL Database	Hyperscale PRMS	Premium series	1.94 TB (Premium SSD)	2	10.4
Digital – Redis Cache	-	Premium P2 Tire (Support 15000 Client Connections)		-	4	13

Software Specification - Temenos Core & Temenos Digital

Layer		Software	Vendor	Version
Application	Runtime	Wildfly	RHEL 9.3	32.0.1. Final
		TAFJ, TAFJEE_EAR	Temenos	202504
	Core	T24	Temenos	202504
	Iris	irf-provider-container	Temenos	202504
Database		Microsoft SQL Azure	Microsoft SQL Azure	12.0.2000.8
JRE		Java	OpenJDK	21.0.7
Infinity OLB		-	-	202501.0.0
Fabric		-	-	25.0.1
Holdings MS		-	-	202501

JVM Memory Configuration

Application	Xms(GB)	Xmx(GB)
API - Temenos Core	9	9
Temenos Digital - Temenos Core	5	7
Fabric – API Portal	1.5	1.5
Fabric - Console	3.5	3.5
Fabric - Engagement	1.5	1.5
Fabric - Identity	7	7
Fabric - Integration	14	14



## Execution & Monitoring Tools Used

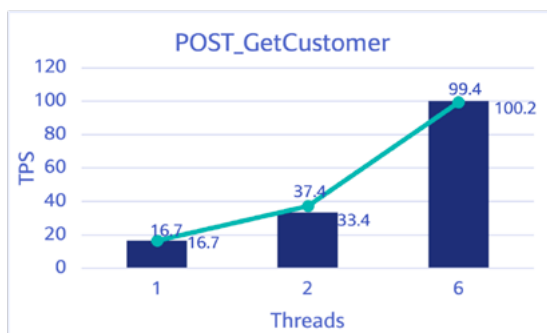
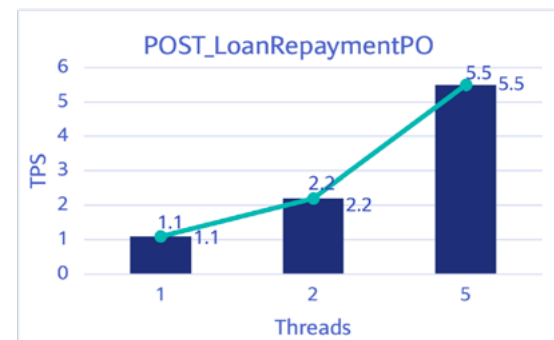
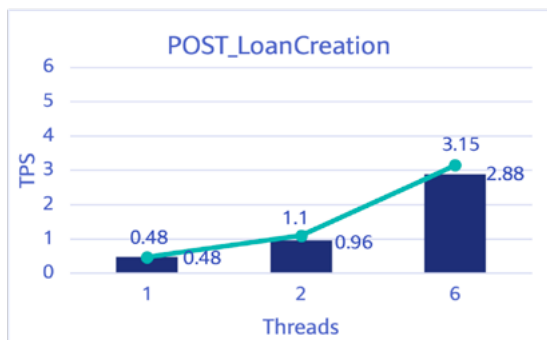
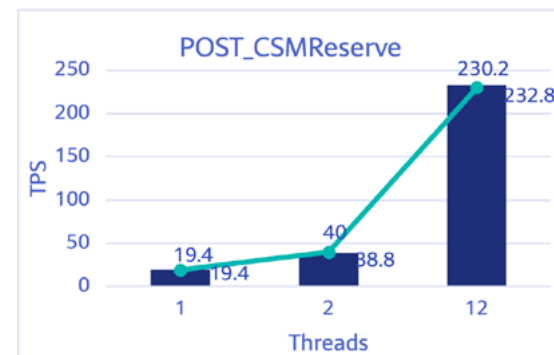
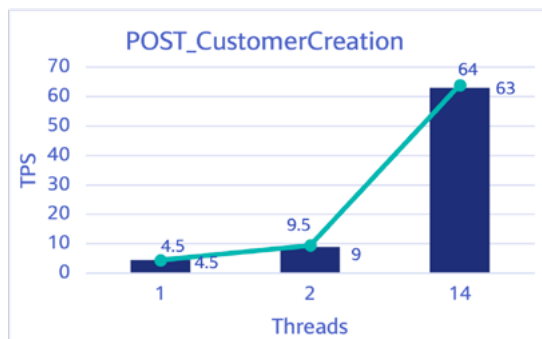
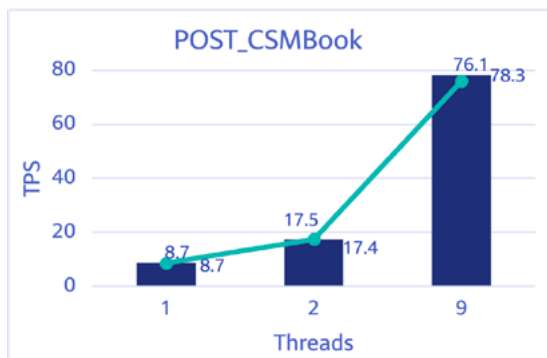
- The Load for Temenos Core and Microservice was executed via ALT.
- Temenos Digital Online Banking flow was executed with Apache JMeter.
- Below Tools used for monitoring the benchmark tests.

Monitoring Tool	Purpose
Dynatrace	To review the resource utilization, application performance monitoring, in-depth analysis.
Azure App Insights	Enabled to monitor the live applications, automatically detecting the performance anomalies, and diagnosing the application issues raised.
Azure Database Watcher	Enabled to monitor Azure databases, providing real-time insights, performance metrics, and diagnostic logs to detect issues and optimize queries automatically.
JMeter	For injecting transactions and measuring scalability.
TAFJ Session Monitor	Enabled during the runs to detect the locking/sleep and to verify active sessions/agents during the execution.
Session Management	Enabled during the runs to detect the heap memory of the application.
SEAT	SEAT is the core tool for transaction analysis, capturing key metrics like reads, writes, I/Os, path length, and elapsed time. It helps evaluate transaction performance and system efficiency.

# Scalability Test Results

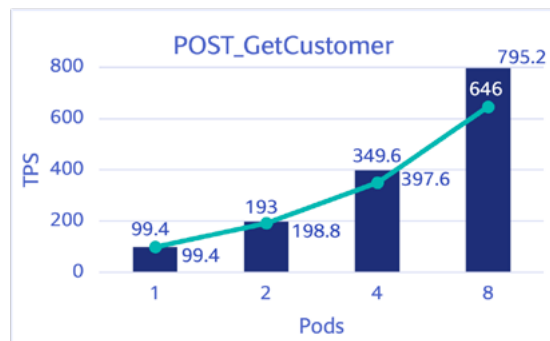
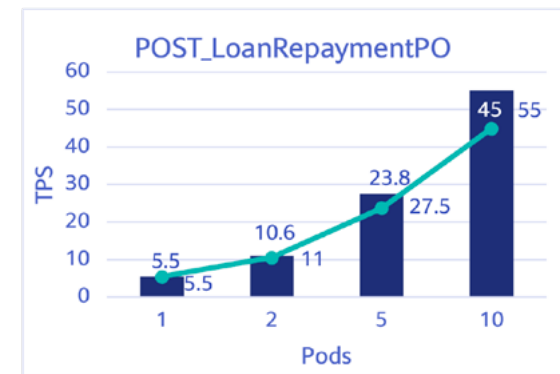
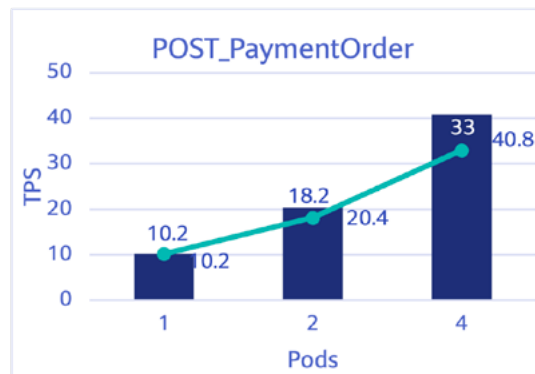
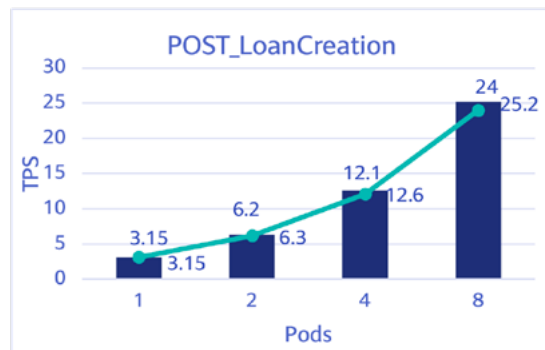
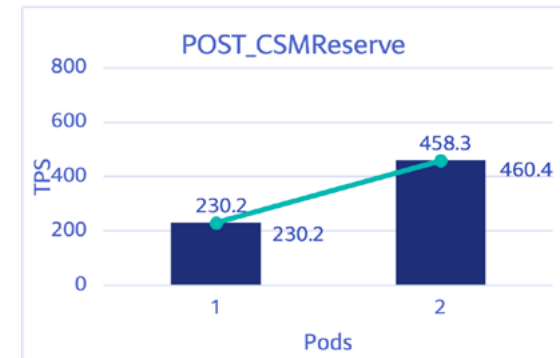
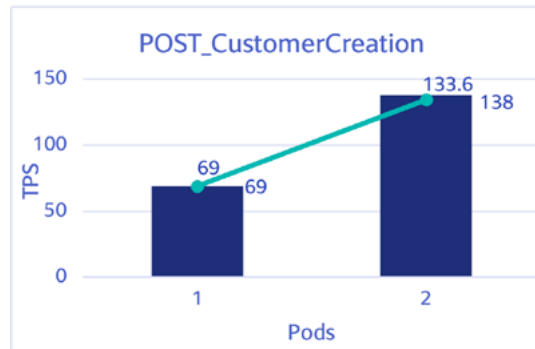
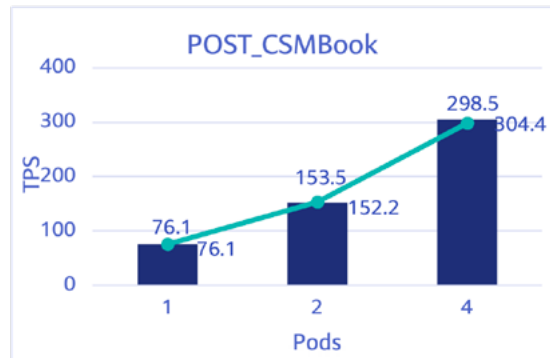
Temenos Core Vertical Scalability

Expected TPS    Achieved TPS

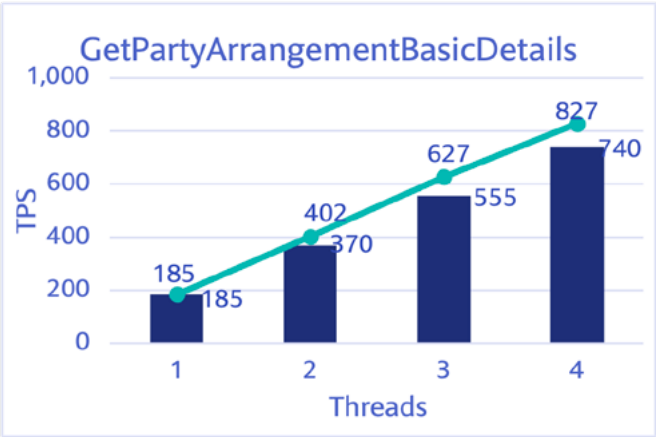
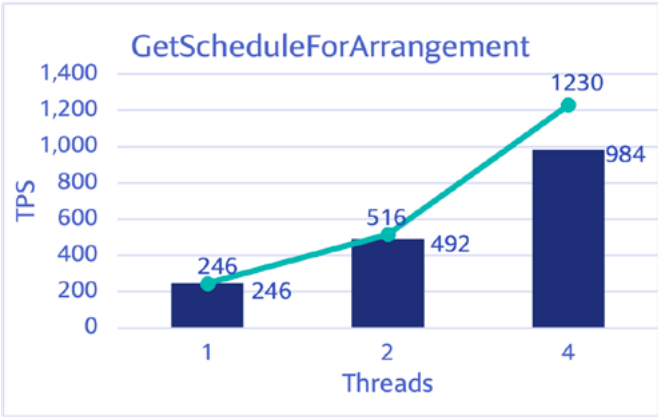
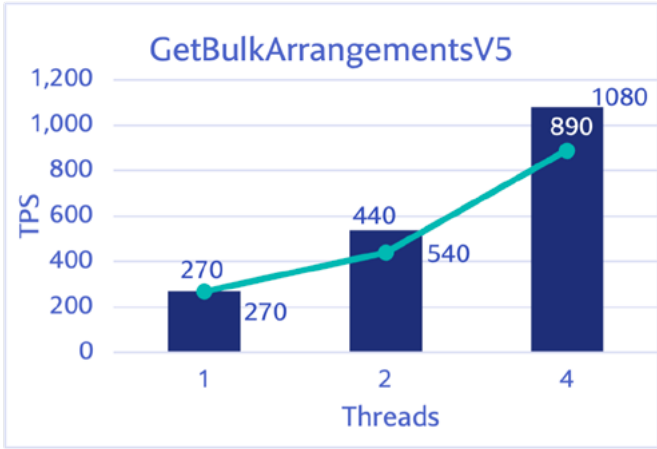
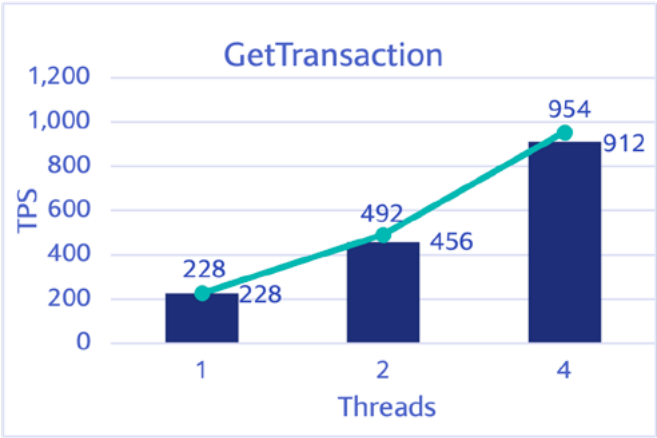
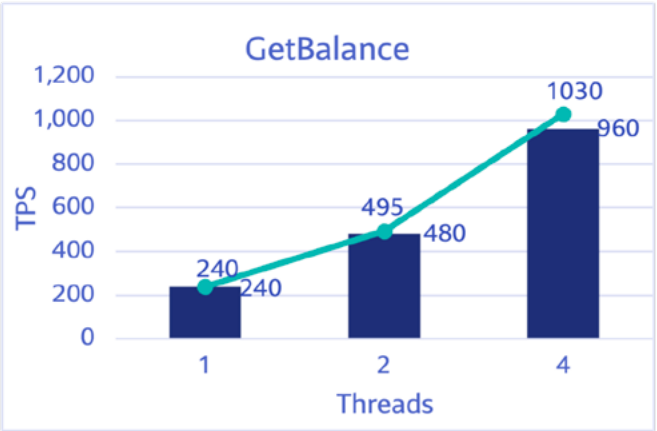


## Temenos Core Horizontal Scalability

Expected TPS    Achieved TPS



Microservices Scalability





# Transaction Mix

For transaction mix, the load test was conducted for below list of APIs with a 30-minute ramp-up time followed by a 30-minute stable period.

## Temenos Core – Test Metrics:

Test Cases	Pods	EJB / Pod	Total Vcpu	Achieved TPS	TPS / EJB	TPS/ vCore	Response Time (ms)	
							Avg	p95
POST_CsmBook	15	10	90	925	6.2	12.5	163	270
POST_CsmReserve	6	8	36	500	10.4	18.1	110	161
POST PaymentOrder	5	6	30	55	1.8	3.4	425	550
POST_LoanRepayment	5	5	30	32	1.3	2	764	1010
POST_LoanCreation	6	6	36	18	0.5	1.3	1520	1790
POST_CustomerCreation	1	2	6	10	5	18.3	154	194
GET_Customer	3	7	18	419	20.4	29.7	44	55

## Temenos Core - Resource Utilisation

Test Cases	App (%)		Database (%)	
	CPU%	Max	Avg CPU%	Avg Memory%
POST_CsmBook	82	92	14	29
POST_CsmReserve	77	92		
POST PaymentOrder	53	93		
POST_LoanRepayment	53	92		
POST_LoanCreation	37	92		
POST_CustomerCreation	9	92		
GET_Customer	78	90		

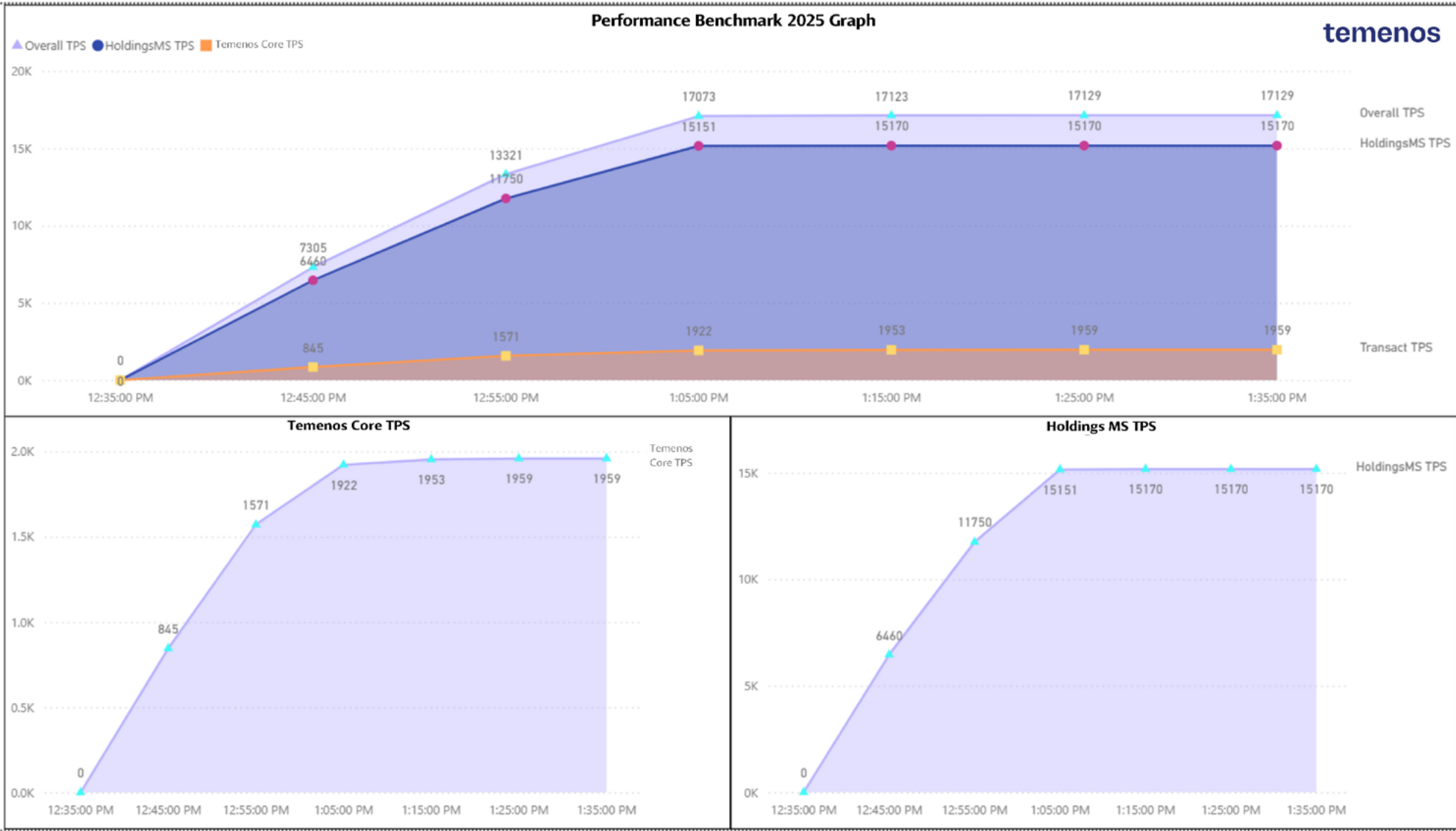
## Microservice – Test Metrics:

Use Cases	TPS	TPS/ Pod	TPS/ Thread	Avg (ms)	p95 (ms)	Replicas	
						Min	Max
GetBalanceEnquiry	4920	458	145	6	12	33	33
GetTransactionList	1810		129	7	14		
Fetch Customer Loan Details	3360		124	7	14		
Get Loan Repayment Details	1700		142	6	12		
Fetch Loan Information	3350		112	8	15		

## Microservice – Resource Utilisation:

Test Cases	Pod Metrics		Database Metrics	
	CPU% (avg)	Memory% (avg)	CPU% (avg)	Memory% (avg)
GetBalanceEnquiry	88	62	7	28
GetTransactionList				
Fetch Customer Loan Details				
Get Loan Repayment Details				
Fetch Loan Information				

Overall TPS – Temenos Core & Microservice



Servlite Test Results

For RES - Temenos Core, the transaction mix test was repeated with Servlite setup and observed better improvement in the TPS with lesser memory utilization.

Below are the mix test comparison results:

API	With app server mix					With Servlite				
	Response Time(ms)		Achieved TPS	vCore Used	Memory Used	Response Time(ms)		Achieved TPS	vCore Used	Memory Used
	Avg	P95				Avg	P95			
POST_CSMBOOK	153	290	987	81	166.5	142	213	1006	65.25	129
POST_CSMRESERVE	81	122	583	33.6	66	80	110	607	24.9	56.4
POST_PO	411	543	72	19.5	55	384	480	77	19.5	50
POST_LOANCREATION	1460	1980	25	24.6	66	1440	1720	25	21.54	52.8
POST_LOANREPAYMENT	751	1000	33	17.5	55	709	870	35	15.7	43
POST_CUSTOMERCREATION	144	170	14	0.75	10.6	133	208	15	0.48	7
GET_CUSTOMER	39	45	523	15.9	32.4	31	37	678	15.6	22.77
Total			2237	192.85	451.5			2443	162.97	360.97

## Temenos Digital – Test Metrics:

User Flow	API	Overall User Flow Response Time		API wise Response Time	
		Avg RT	95% RT	Avg RT	95% RT
Login	Login	168	254	168	254
getUserAttributes	getUserAttributes	847	1614	173	324
	getUsers			117	229
	getFeaturesAndPermissions			129	284
	getSystemConfigurations			76	147
	getList			283	488
	getMessagesNotifications			69	143
getRecent	getRecent	543	1032	188	364
	getBankDate			96	223
	getDetails			259	445
TransferToOwnAccounts	TransferToOwnAccounts	617	970	617	970
Logout	Logout	64	102	64	102

## Temenos Digital - Resource Utilisation

DBX DB		T24 DB		FABRIC DB		Temenos Core (4 Pods)		Integration (5 Pods)		Identity (1 Pod)	
CPU% (avg)	Memory% (avg)	CPU% (avg)	Memory% (avg)	CPU% (avg)	Memory% (avg)	CPU% (avg)	Memory% (avg)	CPU% (avg)	Memory% (avg)	CPU% (avg)	Memory% (avg)
16	35	14	76	40	77	38	66	68	66	52	23

Redis Cache			
CPU% (avg)	Memory% (avg)	Cache Read	Cache Writes
29	11	590.8MB/S	9.6MB/S

# Technology Report

## Overall Results

- The performance benchmarking for TCF 2025 was completed successfully by achieving more than the targeted 17,119 TPS with RES and Microservices.
- Compared to last year, Temenos Core achieved 3.7% additional TPS with 46.3% fewer cores at the application server and 6.8% fewer cores on the database side.
- For Microservice, achieved better throughput (over 3.5% compared to last year) with 18% fewer cores at the ACA Layer and 15% fewer cores on the database side.
- The Online Banking Application effectively supported 900 concurrent users, with 80% of Enquiries and 20% of Transactions. During this load, enquiries response time is within 0.5 seconds and transaction response time within 1 second.
- In Servlite, a 9.2% improvement in TPS was observed, along with a 15.5% improvement in vCore usage and a 20.1% enhancement in memory efficiency.







# Learn More

- Banks that consider adopting new technology need to consider the footprint of their future technology estate. With new engineering and technology developments and utilizing cloud platforms, significant carbon reductions can be achieved.
- This benchmark highlights that banks who use the Temenos Banking Platform can rely on highly performant and highly efficient technology to deliver seamless banking propositions with a small carbon footprint.

Do you want to learn more about the Temenos Performance Benchmark? Please don't hesitate to contact the team or [Please contact us here.](#)

### **About Temenos**

Temenos (SIX: TEMN) is a global leader in banking technology. Through our market-leading core banking suite and best-in-class modular solutions, we are modernizing the banking industry. Banks of all sizes utilize our adaptable technology – deployed on-premises, in the cloud, or as SaaS – to deliver next-generation services and AI-enhanced experiences that elevate banking for their customers. Our mission is to create a world where people can live their best financial lives.

For more information, please visit [www.temenos.com](https://www.temenos.com)

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