Performance

Promotion

*Available until*

*31 Sept 2021*

Code Development Ltd.

1 Egmont Road,

New Malden,

Surrey,

England,

KT3 4AS

sales@maxtaf.com

+44 (0) 20 3637 4471

https://maximo.maxtaf.com

**Free for all
IBM Maximo Customers**

# MaxTAF Performance Promotion

Available until September 2021, MaxTAF is running a promotion for IBM Maximo customers for a free performance test of their system using MaxTAF Cloud, the SaaS test automation platform for Maximo.

## Summary of this leaflet

▶ The entire promotion is free, and is a managed service.

▶ All IBM Maximo customers are eligible, but this will work best for internet facing Maximo environments or for clients with no stringent restirctions on SaaS software.

▶ The tests will be fully bespoke to the client.

▶ Two types of performance test will be ran:

Spike test where User Journeys are synchronised in parallel at levels of 1/5/10/20/50/100 simultaneous users.

Endurance test where test are launched continuously, periodically & asynchronously to see long term system consistency.

▶ The tests provide reliable information about how the system copes with increased usage. Durations of tasks, CPU and Memory are the metrics measured.

▶ Minimum input is required from the client team to set-up the tests.

## Leaflet Contents

**Who is eligible for this promotion?**

This performance promotion is eligible for any organisation using IBM Maximo.

However, due to the nature of MaxTAF Cloud as a SaaS platform, it is likely to be most attractive for users with internet facing environments, such as hosted or SaaS Maximo users, or for those users who do not have highly strict policies concerning SaaS products.

There are multiple ways for MaxTAF to connect into an organisation's network, so plenty of Maximo users with non-internet facing Maximo environments can establish a connection with relative ease.

**Free for all
IBM Maximo Customers**

## How does this promotion work?

The performance test is being offered as a completely free of charge, managed service from the MaxTAF team.

This service is composed of three parts:
- ▶ User Journey Creation
- ▶ Test Orchestration
- ▶ Report Generation

**User Journey Creation**

To understand the performance of the system, MaxTAF will run a set of user interface manipulating automation scripts against the target environment - these scripts are known as User Journeys. This Mimics real world usage of the system in the most accurate way possible.

Portions of the User Journey, such as 'Create a Work Order' or logging in, will have their durations measured, and comparing the length of these durations over the course of multiple User Journey runs will help the client understand how the system performs under varying levels of computational pressure.

With this promotion, users will receive up to 5 bespoke user journeys. The MaxTAF will work with the client to specify which actions will be the most valuable to measure during the performance test.

### Example User Journey
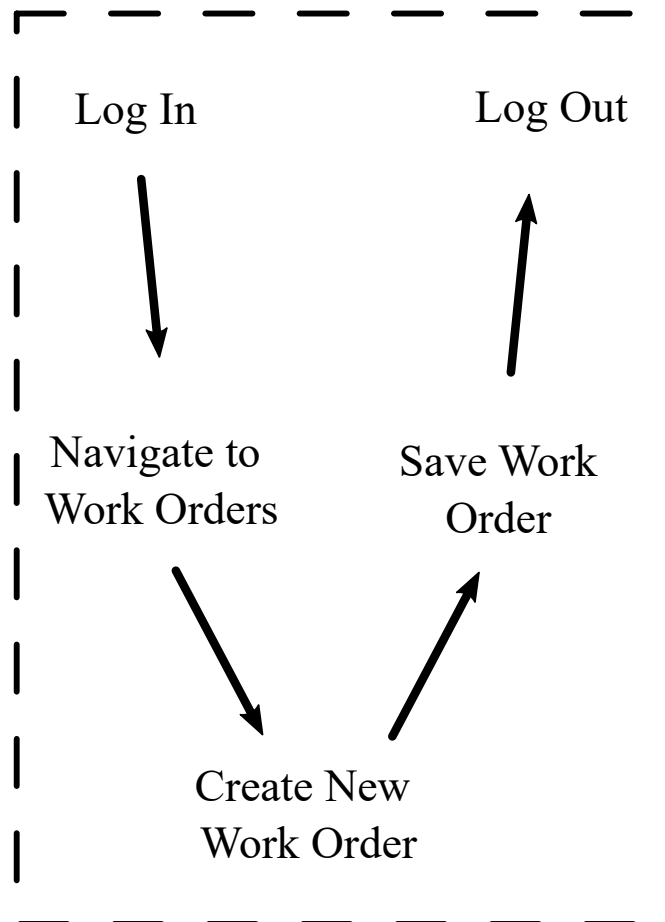
**Orchestration of the Performance test**

The MaxTAF team will also orchestrate the performance test for different scenarios that will place the Maximo system under stress.

For this promotion, the MaxTAF team will orchestrate two separate 'styles' of performance testing - spike testing and endurance testing.

Architecture Diagram of Performance Test
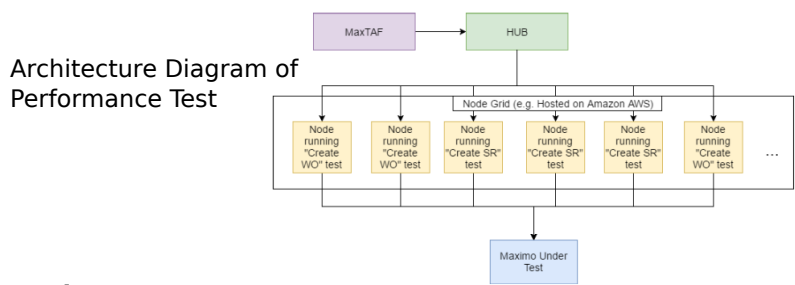
**Spike Testing**

With Spike testing, MaxTAF Cloud will launch User Journeys in Parallel, and in a synchronized manner as well. All segments will effectively run at the same time.

There will be multiple tiers of parallelization, starting at 1 User Journey run, and moving through 5, 10, 20, 50 and 100 sessions running in parallel with one another.

The expectation is that with increased parallel sessions, the durations of segments will increase, and the CPU and Memory will show increased strain on processing power.

This should establish visibility on what the limits of the hardware is, which can allow the Maximo team to decide if more powerful hardware is needed during expected surges of usage.

**Endurance Testing**

With Endurance testing, we are looking to test how consistently the hardware environment performs over a period of time.

User Journeys are ran by MaxTAF Cloud at set intervals over the course of an hour. This will add a moderate level load to the system.

While we expect to see consistent performance over time with CPU, Memory and Segment durations all being level, a noteworthy would be one that shows spikes in resource usage or segment durations at a particular time on the timeline.

Endurance test graph
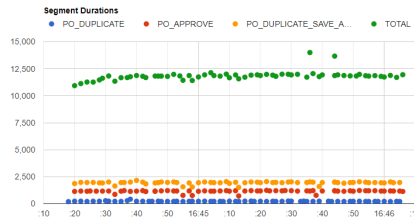
Spike test graph
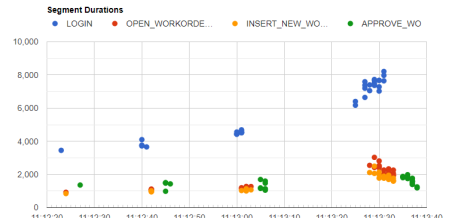
20 Parallel

Data Table

| | Observation | Count | Min | Max | Mean | Std Dev | Median | 90th PCTL | 95th PCTL | 99th PCTL |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | LOGIN | 20 | 6,172 | 8,211 | 7,353 | 489 | 7,429 | 7,976 | 8,211 | 8,211 |
| 2 | OPEN_WORKORDER_APP | 20 | 1,932 | 3,029 | 2,312 | 273 | 2,309 | 2,812 | 3,029 | 3,029 |
| 3 | INSERT_NEW_WORKORDER | 20 | 1,597 | 2,496 | 1,864 | 212 | 1,783 | 2,138 | 2,496 | 2,496 |
| 4 | APPROVE_WO | 20 | 1,190 | 1,983 | 1,613 | 234 | 1,641 | 1,873 | 1,983 | 1,983 |

**Report Generation**

The MaxTAF team will generate a graphical report for the client demonstrating the findings of the performance test.

The raw data of the test can also be provided on request by the CDL team, in case the client wishes to process the data in different ways from that provided on the report.



## Sample Report

MaxTAF Cloud

SaaS Platform for Inevitable Automation Success

Performance

Promotion

*Available until*

*31 Sept 2021*

Code Development Ltd.
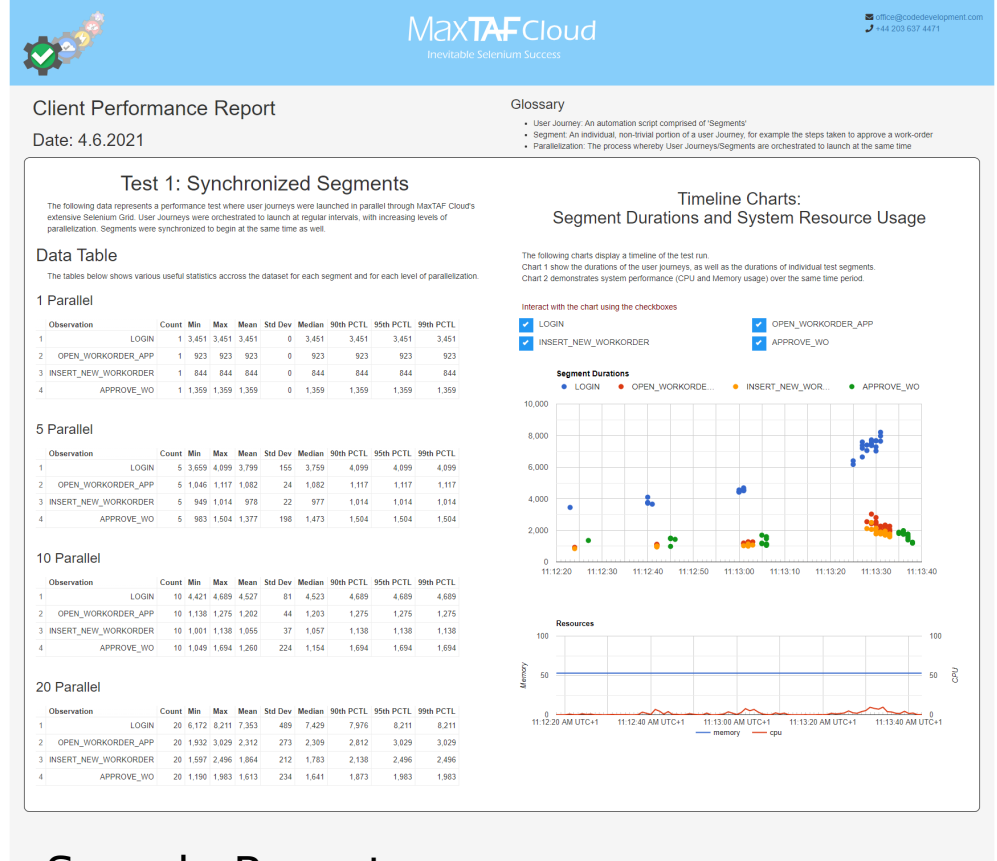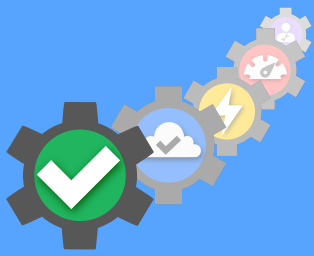
1 Egmont Road,

New Malden,

Surrey,

England,

KT3 4AS

sales@maxtaf.com

+44 (0) 20 3637 4471

https://maximo.maxtaf.com

**Free for all
IBM Maximo Customers**

## What will be required from the client to get set-up for performance testing? -

The MaxTAF team only needs a few things to successfully run a performance test against the client environment:

▶ Access to a Network Engineer.

The client will need to install a performance monitoring agent on the server. This allows MaxTAF to measure the CPU and Memory usage of the machine for a richer and more granular set of results.

If the Maximo environment is not internet facing, then the time of a network engineer will be needed to approve and configure the network to enable MaxTAF to have access to the Maximo System.

▶ A small amount of time from the client team to help the MaxTAF team specify the user journeys that will be used in the performance test.

Alternatively, video recordings can be supplied to the client of the user journeys they wish to be included in the test, including audio coverage of the specific actions being taken.

▶ Any security approval must be conducted.

▶ An appropriate environment and the best time to schedule the test run.

## Terms and Conditions

1. This promotion may only be claimed once per client. Further performance tests may be requested, and Code Development will provide a quote for them at the client's request.
2. This promotion will endure until 31st September 2021.
3. This promotion is subject to the general terms and conditions of MaxTAF Cloud.
4. The client accepts that this promotion is a managed service and that in order to freely modify, configure or run any deliverables, such as User Journeys or Orchestration Scripts, produced during the service, the client must purchase a subscription to MaxTAF Cloud.
5. The promotion must be ran using MaxTAF Cloud. A connection between the client system and MaxTAF Cloud must be enabled in order to perform the services listed.
6. The client is responsible for ensuring that any connection from MaxTAF Cloud to the system is secure and stable for the duration of the period Code Development engages with them. Code Development will work with the client to ensure this.
7. For this promotion the client is entitled to no more than 1 spike test, with levels of parallelization at 1, 5, 10, 20, 50 and 100 concurrent sessions, and 1 endurance test that will run for 30 minutes.