

Performance Test

Conversion & Accessories Administration System (T-CAP)

DEVELOPMENT TCAP SYSTEM IMPROVEMENT

PT Toyota-Astra Motor

Version 1.0

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I. Sign Off

Sign Off				
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II. Revision History

Date Modified	Modified By	Version No.	Type of Change	Brief Description of Change
30-07-2024	Rivaldo	1.0	Initial Document	



I. Business Overview

Dokumen ini menggambarkan Performance Test system Conversion & Accessories Administration System (T-CAP). Performance test pada T-CAP ini digunakan untuk menguji performa dari aplikasi khususnya kegiatan yang berkaitan dengan aktivitas T-CAP setiap harinya. Pengetesan dilakukan dengan menggunakan tools Jmeter.

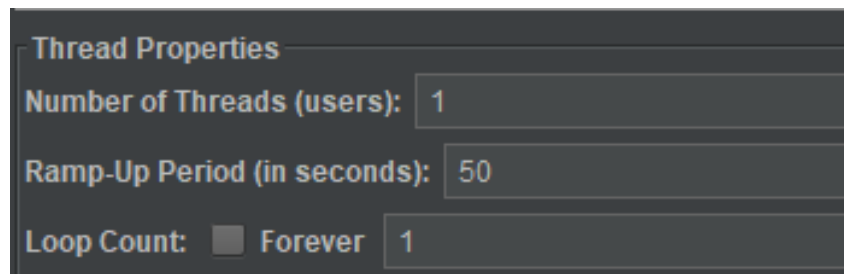
II. Performance Test

II.A. Internet Environment

Variabel

Variabel-variabel yang digunakan pada Environment Internet:

- a) Menggunakan koneksi jaringan Indiehome 10Mbps yang terkoneksi dengan SUV TAM
- b) Dengan skema sebagai berikut



- [1] Number of Threads: Number of concurrent Virtual Users who simultaneously hit Web Services.
- [2] Ramp-Up Period: The interval (in seconds) for the Virtual User to hit Web Services in the next iteration.
The next iteration value will be obtained by dividing ramp-up period by number of threads.
- [3] Loop Count: How many times the web service was hit by the same Virtual User, value we set the value as 1.
- [4] Virtual user: the numbers of user who hit the Apps, the value to use depends on the test scenario



III. Performance Test

Special Note: Pengetesan di UI Login tanpa cache hanyalah digunakan untuk melakukan benchmark basic Response Time Web TCAP pada saat pertama kali load resource. Untuk pengetesan kedua dan seterusnya akan selalu menggunakan cache karena environment production memang hanya di-load di akses pertama. Seterusnya resource tersebut sudah disimpan pada cache browser client.

III.A. Detail Master Part List

No	Scenario Test	Test Case	Jumlah data	Deskripsi	Expected Result
1	Business Case	20 concurrent users	1	Mengukur performa saat business case pada umumnya	Keseluruhan data terkirim <= 15 detik
2	Stress Case	200 concurrent users	1	Mengukur performa saat resource di-load semaksimal mungkin	Keseluruhan data terkirim <= 20 detik

Summary report Business Case

Route	Average Bandwith (kbps)	Average Response Time (ms)	Minimum Response Time (ms)	Maximum Response Time (ms)	Error (%)	Triggered At
TCAD2/MasterPartList/Details/000B	3.87	456	147	748	0.0	Detail Master Part List

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
Master Part List	20	456	147	748	185.42	0.00%	13.4/sec	45.24	3.87	3451.0
TOTAL	20	456	147	748	185.42	0.00%	13.4/sec	45.24	3.87	3451.0

Summary report Stress Case

Route	Average Bandwith (kbps)	Average Response Time (ms)	Minimum Response Time (ms)	Maximum Response Time (ms)	Error (%)	Triggered At
TCAD2/MasterPartList/Details/000B	4.35	11157	9402	12926	0.0	Detail Master Part List

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/...	Sent KB/sec	Avg. Bytes
Master Part List	200	11157	9402	12926	963.38	0.00%	15.4/sec	51.96	4.35	3451.0
TOTAL	200	11157	9402	12926	963.38	0.00%	15.4/sec	51.96	4.35	3451.0

III.B. Detail Engineering Part List

No	Scenario Test	Test Case	Jumlah data	Deskripsi	Expected Result
1	Business Case	20 concurrent users	1	Mengukur performa saat business case pada umumnya	Keseluruhan data terkirim <= 15 detik
2	Stress Case	200 concurrent users	1	Mengukur performa saat resource di-load semaksimal mungkin	Keseluruhan data terkirim <= 20 detik



Summary report Business Case

Route	Average Bandwith (kbps)	Average Response Time (ms)	Minimum Response Time (ms)	Maximum Response Time (ms)	Error (%)	Triggered At
TCAD2/EngineeringPartList/Details/100B	3.62	465	154	830	0.0	Detail Engineering Part List Detail

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
Menu Engineering ...	20	465	154	830	180.85	0.00%	12.6/sec	42.44	3.62	3451.0
TOTAL	20	465	154	830	180.85	0.00%	12.6/sec	42.44	3.62	3451.0

Summary report Stress Case

Route	Average Bandwith (kbps)	Average Response Time (ms)	Minimum Response Time (ms)	Maximum Response Time (ms)	Error (%)	Triggered At
TCAD2/EngineeringPartList/Details/100B	4.42	11280	9404	12953	0.0	Detail Engineering Part List

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/...	Sent KB/sec	Avg. Bytes
Engineering ...	200	11280	9404	12953	870.66	0.00%	15.4/sec	51.92	4.42	3451.0
TOTAL	200	11280	9404	12953	870.66	0.00%	15.4/sec	51.92	4.42	3451.0

III.C. Add Engineering Part List

No	Scenario Test	Test Case	Jumlah data	Deskripsi	Expected Result
1	Business Case	20 concurrent users	1	Mengukur performa saat business case pada umumnya	Keseluruhan data terkirim <= 15 detik
2	Stress Case	200 concurrent users	1	Mengukur performa saat resource di-load semaksimal mungkin	Keseluruhan data terkirim <= 20 detik

Summary report Business Case

Route	Average Bandwith (kbps)	Average Response Time (ms)	Minimum Response Time (ms)	Maximum Response Time (ms)	Error (%)	Triggered At
TCAD2/EngineeringPartList/Create/100B	3.68	450	141	710	0.0	Add Engineering Part List

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
Add Engineering ...	20	450	141	710	178.38	0.00%	12.8/sec	43.29	3.68	3451.0
TOTAL	20	450	141	710	178.38	0.00%	12.8/sec	43.29	3.68	3451.0



Summary report Stress Case

Route	Average Bandwith (kbps)	Average Response Time (ms)	Minimum Response Time (ms)	Maximum Response Time (ms)	Error (%)	Triggered At
TCAD2/EngineeringPartList/Create/100B	4.45	10980	8972	12784	0.0	Add Engineering Part List

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/...	Sent KB/sec	Avg. Bytes
Add Engineer...	200	10980	8972	12784	963.63	0.00%	15.5/sec	52.38	4.45	3451.0
TOTAL	200	10980	8972	12784	963.63	0.00%	15.5/sec	52.38	4.45	3451.0

III.D. Detail Quality Document

No	Scenario Test	Test Case	Jumlah data	Deskripsi	Expected Result
1	Business Case	20 concurrent users	1	Mengukur performa saat business case pada umumnya	Keseluruhan data terkirim <= 15 detik
2	Stress Case	200 concurrent users	1	Mengukur performa saat resource di-load semaksimal mungkin	Keseluruhan data terkirim <= 20 detik

Summary report Business Case

Route	Average Bandwith (kbps)	Average Response Time (ms)	Minimum Response Time (ms)	Maximum Response Time (ms)	Error (%)	Triggered At
TCAD2/QualityDocument/Details/100B	3.61	477	105	729	0.0	Detail Quality Document

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
Quality Document	20	477	105	729	175.75	0.00%	12.7/sec	42.90	3.61	3451.0
TOTAL	20	477	105	729	175.75	0.00%	12.7/sec	42.90	3.61	3451.0

Summary report Stress Case

Route	Average Bandwith (kbps)	Average Response Time (ms)	Minimum Response Time (ms)	Maximum Response Time (ms)	Error (%)	Triggered At
TCAD2/QualityDocument/Details/100B	4.37	10932	8897	12755	0.0	Detail Quality Document

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/...	Sent KB/sec	Avg. Bytes
Quality Docu...	200	10932	8897	12755	1026.93	0.00%	15.4/sec	52.01	4.37	3451.0
TOTAL	200	10932	8897	12755	1026.93	0.00%	15.4/sec	52.01	4.37	3451.0



III.E. Add Quality Document

No	Scenario Test	Test Case	Jumlah data	Deskripsi	Expected Result
1	Business Case	20 concurrent users	1	Mengukur performa saat business case pada umumnya	Keseluruhan data terkirim <= 15 detik
2	Stress Case	200 concurrent users	1	Mengukur performa saat resource di-load semaksimal mungkin	Keseluruhan data terkirim <= 20 detik

Summary report Business Case

Route	Average Bandwith (kbps)	Average Response Time (ms)	Minimum Response Time (ms)	Maximum Response Time (ms)	Error (%)	Triggered At
TCAD2/QualityDocument/Create/100B	3.52	477	151	778	0.0	Add Quality Document

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
Add Quality Docu...	20	477	151	778	183.33	0.00%	12.5/sec	42.07	3.52	3451.0
TOTAL	20	477	151	778	183.33	0.00%	12.5/sec	42.07	3.52	3451.0

Summary report Stress Case

Route	Average Bandwith (kbps)	Average Response Time (ms)	Minimum Response Time (ms)	Maximum Response Time (ms)	Error (%)	Triggered At
TCAD2/QualityDocument/Create/100B	4.70	10154	8391	11573	0.0	Add Quality Document

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/...	Sent KB/sec	Avg. Bytes
Add Quality ...	200	10154	8391	11573	865.69	0.00%	16.6/sec	55.97	4.70	3451.0
TOTAL	200	10154	8391	11573	865.69	0.00%	16.6/sec	55.97	4.70	3451.0

III.F. Detail Purchasing Document

No	Scenario Test	Test Case	Jumlah data	Deskripsi	Expected Result
1	Business Case	20 concurrent users	1	Mengukur performa saat business case pada umumnya	Keseluruhan data terkirim <= 15 detik
2	Stress Case	200 concurrent users	1	Mengukur performa saat resource di-load semaksimal mungkin	Keseluruhan data terkirim <= 25 detik



Summary report Business Case

Route	Average Bandwith (kbps)	Average Response Time (ms)	Minimum Response Time (ms)	Maximum Response Time (ms)	Error (%)	Triggered At
TCAD2/PurchasingDocument/Details/100B	3.76	478	163	715	0.0	Detail Purchasing Document

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
Purchasing Docu...	20	478	163	715	161.79	0.00%	13.1/sec	44.31	3.76	3451.0
TOTAL	20	478	163	715	161.79	0.00%	13.1/sec	44.31	3.76	3451.0

Summary report Stress Case

Route	Average Bandwith (kbps)	Average Response Time (ms)	Minimum Response Time (ms)	Maximum Response Time (ms)	Error (%)	Triggered At
TCAD2/PurchasingDocument/Details/100B	6.05	4886	1182	7081	0.0	Detail Purchasing Document

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/...	Sent KB/sec	Avg. Bytes
Purchasing D...	200	4886	1182	7081	932.10	0.50%	21.2/sec	71.15	6.05	3436.3
TOTAL	200	4886	1182	7081	932.10	0.50%	21.2/sec	71.15	6.05	3436.3

III.G. Add Purchasing Document

No	Scenario Test	Test Case	Jumlah data	Deskripsi	Expected Result
1	Business Case	20 concurrent users	1	Mengukur performa saat business case pada umumnya	Keseluruhan data terkirim <= 15 detik
2	Stress Case	200 concurrent users	1	Mengukur performa saat resource di-load semaksimal mungkin	Keseluruhan data terkirim <= 25 detik

Summary report Business Case

Route	Average Bandwith (kbps)	Average Response Time (ms)	Minimum Response Time (ms)	Maximum Response Time (ms)	Error (%)	Triggered At
TCAD2/PurchasingDocument/Create/100B	3.75	456	179	713	0.0	Add Purchasing Document

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
Add Purchasing ...	20	456	179	713	157.42	0.00%	13.1/sec	44.31	3.75	3451.0
TOTAL	20	456	179	713	157.42	0.00%	13.1/sec	44.31	3.75	3451.0



Summary report Stress Case

Route	Average Bandwith (kbps)	Average Response Time (ms)	Minimum Response Time (ms)	Maximum Response Time (ms)	Error (%)	Triggered At
TCAD2/PurchasingDocument/Create/100B	6.45	5529	3530	7712	0.0	Add Purchasing Document

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/...	Sent KB/sec	Avg. Bytes
Add Purchasi...	200	5529	3530	7712	862.07	0.00%	22.6/sec	76.26	6.45	3451.0
TOTAL	200	5529	3530	7712	862.07	0.00%	22.6/sec	76.26	6.45	3451.0

III.H. Attachment A

No	Scenario Test	Test Case	Jumlah data	Deskripsi	Expected Result
1	Business Case	20 concurrent users	1	Mengukur performa saat business case pada umumnya	Keseluruhan data terkirim <= 15 detik
2	Stress Case	200 concurrent users	1	Mengukur performa saat resource di-load semaksimal mungkin	Keseluruhan data terkirim <= 25 detik

Summary report Business Case

Route	Average Bandwith (kbps)	Average Response Time (ms)	Minimum Response Time (ms)	Maximum Response Time (ms)	Error (%)	Triggered At
TCAD2/AttachmentADocument	3.60	448	156	713	0.0	Attachment A

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
Attachment A	20	448	156	713	159.56	0.00%	13.1/sec	44.26	3.60	3451.0
TOTAL	20	448	156	713	159.56	0.00%	13.1/sec	44.26	3.60	3451.0

Summary report Stress Case

Route	Average Bandwith (kbps)	Average Response Time (ms)	Minimum Response Time (ms)	Maximum Response Time (ms)	Error (%)	Triggered At
TCAD2/AttachmentADocument	5.79	5284	1135	7015	0.0	Attachment A

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/...	Sent KB/sec	Avg. Bytes
Attachment A	200	5284	1135	7015	1177.23	3.00%	21.4/sec	70.32	5.79	3362.9
TOTAL	200	5284	1135	7015	1177.23	3.00%	21.4/sec	70.32	5.79	3362.9



III.I. Add Attachment A

No	Scenario Test	Test Case	Jumlah data	Deskripsi	Expected Result
1	Business Case	20 concurrent users	1	Mengukur performa saat business case pada umumnya	Keseluruhan data terkirim <= 15 detik
2	Stress Case	200 concurrent users	1	Mengukur performa saat resource di-load semaksimal mungkin	Keseluruhan data terkirim <= 25 detik

Summary report Business Case

Route	Average Bandwith (kbps)	Average Response Time (ms)	Minimum Response Time (ms)	Maximum Response Time (ms)	Error (%)	Triggered At
TCAD2/AttachmentAD ocument/Create	3.65	466	173	692	0.0	Add Attachment A

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
Add Attachment A	20	466	173	692	131.57	0.00%	13.0/sec	43.80	3.65	3451.0
TOTAL	20	466	173	692	131.57	0.00%	13.0/sec	43.80	3.65	3451.0

Summary report Stress Case

Route	Average Bandwith (kbps)	Average Response Time (ms)	Minimum Response Time (ms)	Maximum Response Time (ms)	Error (%)	Triggered At
TCAD2/AttachmentAD ocument/Create	6.00	5482	1188	7008	0.0	Add Attachment A

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/...	Sent KB/sec	Avg. Bytes
Add Attachm...	200	5482	1188	7008	1052.03	1.50%	21.5/sec	71.48	6.00	3406.9
TOTAL	200	5482	1188	7008	1052.03	1.50%	21.5/sec	71.48	6.00	3406.9

III.J. Add Royalty Report

No	Scenario Test	Test Case	Jumlah data	Deskripsi	Expected Result
1	Business Case	20 concurrent users	1	Mengukur performa saat business case pada umumnya	Keseluruhan data terkirim <= 15 detik
2	Stress Case	200 concurrent users	1	Mengukur performa saat resource di-load semaksimal mungkin	Keseluruhan data terkirim <= 25 detik



Summary report Business Case

Route	Average Bandwith (kbps)	Average Response Time (ms)	Minimum Response Time (ms)	Maximum Response Time (ms)	Error (%)	Triggered At
TCAD2/AttachmentAD ocument/CreateRoyalty	3.78	477	168	625	0.0	Add Royalty Report

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
Add Royalty Report	20	447	168	625	152.79	0.00%	13.1/sec	44.23	3.78	3451.0
TOTAL	20	447	168	625	152.79	0.00%	13.1/sec	44.23	3.78	3451.0

Summary report Stress Case

Route	Average Bandwith (kbps)	Average Response Time (ms)	Minimum Response Time (ms)	Maximum Response Time (ms)	Error (%)	Triggered At
TCAD2/AttachmentAD ocument/CreateRoyalty	6.26	5848	2899	7009	0.0	Add Royalty Report

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/...	Sent KB/sec	Avg. Bytes
Add Royalty ...	200	5848	2899	7009	855.29	0.00%	21.7/sec	73.18	6.26	3451.0
TOTAL	200	5848	2899	7009	855.29	0.00%	21.7/sec	73.18	6.26	3451.0

III.K. View TIS/DIS

No	Scenario Test	Test Case	Jumlah data	Deskripsi	Expected Result
1	Business Case	20 concurrent users	1	Mengukur performa saat business case pada umumnya	Keseluruhan data terkirim <= 15 detik
2	Stress Case	200 concurrent users	1	Mengukur performa saat resource di-load semaksimal mungkin	Keseluruhan data terkirim <= 25 detik

Summary report Business Case

Route	Average Bandwith (kbps)	Average Response Time (ms)	Minimum Response Time (ms)	Maximum Response Time (ms)	Error (%)	Triggered At
TCAD2/TisDisDocume nt/Details/100B	3.82	506	138	907	0.0	View TIS/DIS

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
TIS/DIS	20	506	138	907	193.13	0.00%	13.3/sec	44.73	3.82	3451.0
TOTAL	20	506	138	907	193.13	0.00%	13.3/sec	44.73	3.82	3451.0

Summary report Stress Case

Route	Average Bandwith (kbps)	Average Response Time (ms)	Minimum Response Time (ms)	Maximum Response Time (ms)	Error (%)	Triggered At
TCAD2/TisDisDocume nt/Details/100B	6.31	5367	1224	7027	0.0	View TIS/DIS

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/...	Sent KB/sec	Avg. Bytes
TIS/DIS	200	5367	1224	7027	820.61	0.50%	22.4/sec	75.18	6.31	3436.3
TOTAL	200	5367	1224	7027	820.61	0.50%	22.4/sec	75.18	6.31	3436.3



III.L. Add TIS/DIS

No	Scenario Test	Test Case	Jumlah data	Deskripsi	Expected Result
1	Business Case	20 concurrent users	1	Mengukur performa saat business case pada umumnya	Keseluruhan data terkirim <= 15 detik
2	Stress Case	200 concurrent users	1	Mengukur performa saat resource di-load semaksimal mungkin	Keseluruhan data terkirim <= 25 detik

Summary report Business Case

Route	Average Bandwith (kbps)	Average Response Time (ms)	Minimum Response Time (ms)	Maximum Response Time (ms)	Error (%)	Triggered At
TCAD2/TisDisDocum nt/Create/100B	3.18	762	192	1034	0.0	Add TIS/DIS

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
Add TIS/DIS	20	726	192	1034	217.68	0.00%	11.3/sec	38.12	3.18	3451.0
TOTAL	20	726	192	1034	217.68	0.00%	11.3/sec	38.12	3.18	3451.0

Summary report Stress Case

Route	Average Bandwith (kbps)	Average Response Time (ms)	Minimum Response Time (ms)	Maximum Response Time (ms)	Error (%)	Triggered At
TCAD2/TisDisDocum nt/Create/100B	6.14	5415	1187	7661	0.0	Add TIS/DIS

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/...	Sent KB/sec	Avg. Bytes
Add TIS/DIS	200	5415	1187	7661	1085.55	2.50%	22.1/sec	72.82	6.14	3377.6
TOTAL	200	5415	1187	7661	1085.55	2.50%	22.1/sec	72.82	6.14	3377.6

III.M. Direct Delivery

No	Scenario Test	Test Case	Jumlah data	Deskripsi	Expected Result
1	Business Case	20 concurrent users	1	Mengukur performa saat business case pada umumnya	Keseluruhan data terkirim <= 15 detik
2	Stress Case	200 concurrent users	1	Mengukur performa saat resource di-load semaksimal mungkin	Keseluruhan data terkirim <= 25 detik

Summary report Business Case

Route	Average Bandwith (kbps)	Average Response Time (ms)	Minimum Response Time (ms)	Maximum Response Time (ms)	Error (%)	Triggered At
TCAD2/DirectDelivery	3.58	509	145	899	0.0	Direct Delivery



Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
Direct Delivery	20	509	145	899	180.87	0.00%	13.3/sec	44.82	3.58	3451.0
TOTAL	20	509	145	899	180.87	0.00%	13.3/sec	44.82	3.58	3451.0

Summary report Stress Case

Route	Average Bandwith (kbps)	Average Response Time (ms)	Minimum Response Time (ms)	Maximum Response Time (ms)	Error (%)	Triggered At
TCAD2/DirectDelivery	6.33	5540	1181	7591	0.0	Direct Delivery

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/...	Sent KB/sec	Avg. Bytes
Direct Delivery	200	5540	1181	7591	1216.42	5.00%	24.1/sec	77.68	6.33	3304.1
TOTAL	200	5540	1181	7591	1216.42	5.00%	24.1/sec	77.68	6.33	3304.1

III.N. Add Direct Delivery

No	Scenario Test	Test Case	Jumlah data	Deskripsi	Expected Result
1	Business Case	20 concurrent users	1	Mengukur performa saat business case pada umumnya	Keseluruhan data terkirim <= 15 detik
2	Stress Case	200 concurrent users	1	Mengukur performa saat resource di-load semaksimal mungkin	Keseluruhan data terkirim <= 25 detik

Summary report Business Case

Route	Average Bandwith (kbps)	Average Response Time (ms)	Minimum Response Time (ms)	Maximum Response Time (ms)	Error (%)	Triggered At
TCAD2/DirectDelivery/ Create	3.66	493	156	881	0.0	Add Direct Delivery

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
Add Direct Delivery	20	493	156	881	160.55	0.00%	13.2/sec	44.64	3.66	3451.0
TOTAL	20	493	156	881	160.55	0.00%	13.2/sec	44.64	3.66	3451.0

Summary report Stress Case

Route	Average Bandwith (kbps)	Average Response Time (ms)	Minimum Response Time (ms)	Maximum Response Time (ms)	Error (%)	Triggered At
TCAD2/DirectDelivery/ Create	6.35	5615	1130	7340	0.0	Add Direct Delivery

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/...	Sent KB/sec	Avg. Bytes
Add Direct D...	200	5615	1130	7340	1058.77	3.00%	23.3/sec	76.51	6.35	3362.9
TOTAL	200	5615	1130	7340	1058.77	3.00%	23.3/sec	76.51	6.35	3362.9



III.O. Upload Direct Delivery

No	Scenario Test	Test Case	Jumlah data	Deskripsi	Expected Result
1	Business Case	20 concurrent users	1	Mengukur performa saat business case pada umumnya	Keseluruhan data terkirim <= 15 detik
2	Stress Case	200 concurrent users	1	Mengukur performa saat resource di-load semaksimal mungkin	Keseluruhan data terkirim <= 25 detik

Summary report Business Case

Route	Average Bandwith (kbps)	Average Response Time (ms)	Minimum Response Time (ms)	Maximum Response Time (ms)	Error (%)	Triggered At
TCAD2/DirectDelivery/Upload	3.57	504	250	741	0.0	Upload Direct Delivery

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
Upload Direct Del...	20	504	250	741	134.31	0.00%	12.9/sec	43.54	3.57	3451.0
TOTAL	20	504	250	741	134.31	0.00%	12.9/sec	43.54	3.57	3451.0

Summary report Stress Case

Route	Average Bandwith (kbps)	Average Response Time (ms)	Minimum Response Time (ms)	Maximum Response Time (ms)	Error (%)	Triggered At
TCAD2/DirectDelivery/Upload	6.19	5513	1135	6886	0.0	Upload Direct Delivery

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/...	Sent KB/sec	Avg. Bytes
Upload Direct...	200	5513	1135	6886	1086.27	3.50%	22.8/sec	74.46	6.19	3348.2
TOTAL	200	5513	1135	6886	1086.27	3.50%	22.8/sec	74.46	6.19	3348.2

III.P. Parameter Scheme

No	Scenario Test	Test Case	Jumlah data	Deskripsi	Expected Result
1	Business Case	20 concurrent users	1	Mengukur performa saat business case pada umumnya	Keseluruhan data terkirim <= 15 detik
2	Stress Case	100 concurrent users	1	Mengukur performa saat resource di-load semaksimal mungkin	Keseluruhan data terkirim <= 20 detik



Summary report Business Case

Route	Average Bandwith (kbps)	Average Response Time (ms)	Minimum Response Time (ms)	Maximum Response Time (ms)	Error (%)	Triggered At
TCAD2/Scheme	2.96	701	241	1158	0.0	Parameter Scheme

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
Parameter Scheme	20	701	241	1158	243.14	0.00%	11.3/sec	38.08	2.96	3451.0
TOTAL	20	701	241	1158	243.14	0.00%	11.3/sec	38.08	2.96	3451.0

Summary report Stress Case

Route	Average Bandwith (kbps)	Average Response Time (ms)	Minimum Response Time (ms)	Maximum Response Time (ms)	Error (%)	Triggered At
TCAD2/Scheme	2.10	10568	10069	12395	0.0	Parameter Scheme

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
Parameter Sch...	100	10568	10069	12395	376.22	0.00%	8.0/sec	27.06	2.10	3451.0
TOTAL	100	10568	10069	12395	376.22	0.00%	8.0/sec	27.06	2.10	3451.0

III.Q. Add Parameter Scheme

No	Scenario Test	Test Case	Jumlah data	Deskripsi	Expected Result
1	Business Case	20 concurrent users	1	Mengukur performa saat business case pada umumnya	Keseluruhan data terkirim <= 15 detik
2	Stress Case	100 concurrent users	1	Mengukur performa saat resource di-load semaksimal mungkin	Keseluruhan data terkirim <= 20 detik

Summary report Business Case

Route	Average Bandwith (kbps)	Average Response Time (ms)	Minimum Response Time (ms)	Maximum Response Time (ms)	Error (%)	Triggered At
TCAD2/Scheme/Create	3.64	482	150	853	0.0	Add Parameter Scheme

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
Add Parameter S...	20	482	150	853	158.82	0.00%	13.6/sec	45.73	3.64	3451.0
TOTAL	20	482	150	853	158.82	0.00%	13.6/sec	45.73	3.64	3451.0



Summary report Stress Case

Route	Average Bandwith (kbps)	Average Response Time (ms)	Minimum Response Time (ms)	Maximum Response Time (ms)	Error (%)	Triggered At
TCAD2/Scheme/Create	2.16	10549	9975	12391	0.0	Add Parameter Scheme

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
Add Parameter...	100	10549	9975	12391	379.64	0.00%	8.1/sec	27.15	2.16	3451.0
TOTAL	100	10549	9975	12391	379.64	0.00%	8.1/sec	27.15	2.16	3451.0

III.R. Parameter Buyer

No	Scenario Test	Test Case	Jumlah data	Deskripsi	Expected Result
1	Business Case	20 concurrent users	1	Mengukur performa saat business case pada umumnya	Keseluruhan data terkirim <= 15 detik
2	Stress Case	100 concurrent users	1	Mengukur performa saat resource di-load semaksimal mungkin	Keseluruhan data terkirim <= 20 detik

Summary report Business Case

Route	Average Bandwith (kbps)	Average Response Time (ms)	Minimum Response Time (ms)	Maximum Response Time (ms)	Error (%)	Triggered At
TCAD2/Buyer	3.74	477	175	716	0.0	Parameter Buyer

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
Parameter Buyer	20	477	175	716	115.26	0.00%	13.9/sec	46.87	3.74	3451.0
TOTAL	20	477	175	716	115.26	0.00%	13.9/sec	46.87	3.74	3451.0

Summary report Stress Case

Route	Average Bandwith (kbps)	Average Response Time (ms)	Minimum Response Time (ms)	Maximum Response Time (ms)	Error (%)	Triggered At
TCAD2/Buyer	2.15	10554	10073	11099	0.0	Parameter Buyer

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
Parameter Buyer	100	10554	10073	11099	242.63	0.00%	8.3/sec	27.84	2.15	3451.0
TOTAL	100	10554	10073	11099	242.63	0.00%	8.3/sec	27.84	2.15	3451.0



III.S. Add Parameter Buyer

No	Scenario Test	Test Case	Jumlah data	Deskripsi	Expected Result
1	Business Case	20 concurrent users	1	Mengukur performa saat business case pada umumnya	Keseluruhan data terkirim <= 15 detik
2	Stress Case	100 concurrent users	1	Mengukur performa saat resource di-load semaksimal mungkin	Keseluruhan data terkirim <= 20 detik

Summary report Business Case

Route	Average Bandwith (kbps)	Average Response Time (ms)	Minimum Response Time (ms)	Maximum Response Time (ms)	Error (%)	Triggered At
TCAD2/Buyer/Create	3.55	484	153	717	0.0	Add Parameter Buyer

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
Add Parameter B...	20	484	153	717	141.54	0.00%	13.2/sec	44.52	3.55	3451.0
TOTAL	20	484	153	717	141.54	0.00%	13.2/sec	44.52	3.55	3451.0

Summary report Stress Case

Route	Average Bandwith (kbps)	Average Response Time (ms)	Minimum Response Time (ms)	Maximum Response Time (ms)	Error (%)	Triggered At
TCAD2/Buyer/Create	2.19	10526	10073	11099	0.0	Add Parameter Buyer

Label ↓	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
Add Parameter B...	100	10526	10073	11099	268.29	0.00%	8.2/sec	27.54	2.19	3451.0
TOTAL	100	10526	10073	11099	268.29	0.00%	8.2/sec	27.54	2.19	3451.0

III.T. Parameter Destination

No	Scenario Test	Test Case	Jumlah data	Deskripsi	Expected Result
1	Business Case	20 concurrent users	1	Mengukur performa saat business case pada umumnya	Keseluruhan data terkirim <= 15 detik
2	Stress Case	100 concurrent users	1	Mengukur performa saat resource di-load semaksimal mungkin	Keseluruhan data terkirim <= 20 detik



Summary report Business Case

Route	Average Bandwith (kbps)	Average Response Time (ms)	Minimum Response Time (ms)	Maximum Response Time (ms)	Error (%)	Triggered At
TCAD2/Destination	3.57	493	144	896	0.0	Parameter Destination

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
Parameter Desti...	20	493	144	896	171.24	0.00%	13.3/sec	44.76	3.57	3451.0
TOTAL	20	493	144	896	171.24	0.00%	13.3/sec	44.76	3.57	3451.0

Summary report Stress Case

Route	Average Bandwith (kbps)	Average Response Time (ms)	Minimum Response Time (ms)	Maximum Response Time (ms)	Error (%)	Triggered At
TCAD2/Destination	2.21	10572	10079	11087	0.0	Parameter Destination

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
Parameter Destin...	100	10572	10079	11087	252.94	0.00%	8.3/sec	27.93	2.21	3451.0
TOTAL	100	10572	10079	11087	252.94	0.00%	8.3/sec	27.93	2.21	3451.0

III.U. Add Parameter Destination

No	Scenario Test	Test Case	Jumlah data	Deskripsi	Expected Result
1	Business Case	20 concurrent users	1	Mengukur performa saat business case pada umumnya	Keseluruhan data terkirim <= 15 detik
2	Stress Case	100 concurrent users	1	Mengukur performa saat resource di-load semaksimal mungkin	Keseluruhan data terkirim <= 20 detik

Summary report Business Case

Route	Average Bandwith (kbps)	Average Response Time (ms)	Minimum Response Time (ms)	Maximum Response Time (ms)	Error (%)	Triggered At
TCAD2/Destination/Create	3.56	491	145	791	0.0	Add Parameter Destination

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
Add Parameter ...	20	491	145	791	141.40	0.00%	13.3/sec	44.73	3.56	3451.0
TOTAL	20	491	145	791	141.40	0.00%	13.3/sec	44.73	3.56	3451.0



Summary report Stress Case

Route	Average Bandwith (kbps)	Average Response Time (ms)	Minimum Response Time (ms)	Maximum Response Time (ms)	Error (%)	Triggered At
TCAD2/Destination/Create	2.23	10596	10075	11696	0.0	Add Parameter Destination

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
Add Parameter D...	100	10596	10075	11696	304.42	0.00%	8.2/sec	27.52	2.23	3451.0
TOTAL	100	10596	10075	11696	304.42	0.00%	8.2/sec	27.52	2.23	3451.0

III.V. Parameter Part Category

No	Scenario Test	Test Case	Jumlah data	Deskripsi	Expected Result
1	Business Case	20 concurrent users	1	Mengukur performa saat business case pada umumnya	Keseluruhan data terkirim <= 15 detik
2	Stress Case	100 concurrent users	1	Mengukur performa saat resource di-load semaksimal mungkin	Keseluruhan data terkirim <= 20 detik

Summary report Business Case

Route	Average Bandwith (kbps)	Average Response Time (ms)	Minimum Response Time (ms)	Maximum Response Time (ms)	Error (%)	Triggered At
TCAD2/PartCategory	3.56	519	152	749	0.0	Parameter Part Category

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
Parameter Part C...	20	519	152	749	149.89	0.00%	13.3/sec	44.70	3.56	3451.0
TOTAL	20	519	152	749	149.89	0.00%	13.3/sec	44.70	3.56	3451.0

Summary report Stress Case

Route	Average Bandwith (kbps)	Average Response Time (ms)	Minimum Response Time (ms)	Maximum Response Time (ms)	Error (%)	Triggered At
TCAD2/PartCategory	2.27	10822	10359	11104	0.0	Parameter Part Category

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
Parameter PartC...	100	10822	10359	11104	173.86	0.00%	8.5/sec	28.55	2.27	3451.0
TOTAL	100	10822	10359	11104	173.86	0.00%	8.5/sec	28.55	2.27	3451.0



III.W. Add Parameter Part Category

No	Scenario Test	Test Case	Jumlah data	Deskripsi	Expected Result
1	Business Case	20 concurrent users	1	Mengukur performa saat business case pada umumnya	Keseluruhan data terkirim <= 15 detik
2	Stress Case	100 concurrent users	1	Mengukur performa saat resource di-load semaksimal mungkin	Keseluruhan data terkirim <= 20 detik

Summary report Business Case

Route	Average Bandwith (kbps)	Average Response Time (ms)	Minimum Response Time (ms)	Maximum Response Time (ms)	Error (%)	Triggered At
TCAD2/PartCategory/Crete	3.76	489	230	717	0.0	Add Parameter Part Category

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
Add Parameter P...	20	489	230	717	126.16	0.00%	14.0/sec	47.17	3.76	3451.0
TOTAL	20	489	230	717	126.16	0.00%	14.0/sec	47.17	3.76	3451.0

Summary report Stress Case

Route	Average Bandwith (kbps)	Average Response Time (ms)	Minimum Response Time (ms)	Maximum Response Time (ms)	Error (%)	Triggered At
TCAD2/PartCategory/Crete	2.33	10756	10418	11046	0.0	Add Parameter Part Category

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
Add Parameter P...	100	10756	10418	11046	178.69	0.00%	8.5/sec	28.67	2.33	3451.0
TOTAL	100	10756	10418	11046	178.69	0.00%	8.5/sec	28.67	2.33	3451.0



IV. Performance Summary

Dari Testing tersebut, berdasarkan Application performance Index Jmeter didapatkan kesimpulan bahwa 100% request yang dilakukan masih berada dibawah standar request normal (15 detik), sehingga performa aplikasi tergolong baik. hal ini juga dikarenakan concurrent user yang mencapai 200 user, dimana pada kondisi realnya untuk penggunaan aplikasi user internal dalam suatu waktu saat ini belum mencapai angka tersebut.

- CI/CD Evidence Performance Test

```
20 WARN StatusConsoleListener The use of package scanning to locate plugins is deprecated
and will be removed in a future release
21 WARN StatusConsoleListener The use of package scanning to locate plugins is deprecated
and will be removed in a future release
22 WARN StatusConsoleListener The use of package scanning to locate plugins is deprecated
and will be removed in a future release
23 WARN StatusConsoleListener The use of package scanning to locate plugins is deprecated
and will be removed in a future release
24 Creating summariser <summary>
25 Created the tree successfully using C:\apache-jmeter-5.6.3\apache-jmeter-5.6.3\bin\Tes
tingTCAP\Test.jmx
26 Starting standalone test @ 2024 Oct 30 13:36:44 GMT+07:00 (1730270204782)
27 Waiting for possible Shutdown/StopTestNow/HeapDump/ThreadDump message on port 4445
28 summary = 460 in 00:00:04 = 116.9/s Avg: 1365 Min: 448 Max: 1910 Err: 0
(0.00%)
29 Tidying up ... @ 2024 Oct 30 13:36:49 GMT+07:00 (1730270209183)
30 ... end of run
31 C:\Users\kijang\Documents\jmeterlog\log-20241030_133629.jtl
32 Minimum Elapsed Time: 91 milliseconds
33 Maximum Elapsed Time: 1910 milliseconds
34 Average Elapsed Time: 910.322463768116 milliseconds
35 Transactions exceeding threshold: 0
37 Cleaning up project directory and file based variables
39 Job succeeded
```

