

## Performance test for Location

Test Summary:

Kernel Request	Location Controller
Base URL	https://integ.mosip.io
Execution Window	2019/02/13 02:35 PM IST to 2019/02/13 03:10 PM IST
Maximum User Load	100
Tool Used	Jmeter

Transaction Summary:

API Endpoint	#Sample	Average	90% line(ms)	Min(ms)	Max(ms)	Error%	Throughput/Sec
GetLocationHierarchyDetails	16113	1140	3094	63	42076	0.12%	7.33
GetLocationHierarchyByLangCode	16084	1246	3106	58	42047	0.30%	7.31
GetImmediateChildrenByLocCodeAndLangCode	16062	1128	3096	49	42253	0.14%	7.31
GetLocationDataByHierarchyName	16035	1201	3093	44	42037	0.20%	7.29

Test Observation:

1. Response time for fetching a Location details is more than 1 second where in the required response time is 300ms.

The chart displays the response times in milliseconds for four different methods over a period of time. The x-axis represents the elapsed time with a granularity of 42 seconds, and the y-axis represents the response times in milliseconds, ranging from 0 to 4000. The four methods are represented by different colored lines: green for GetImmediateChildrenByLocCodeAndLangCode, cyan for GetLocationDataByHierarchyName, magenta for GetLocationHierarchyByLangCode, and red for GetLocationHierarchyDetails. The response times for all methods fluctuate significantly, with peaks reaching up to 3500 ms for GetLocationDataByHierarchyName and 2400 ms for GetImmediateChildrenByLocCodeAndLangCode. The GetLocationHierarchyByLangCode method generally shows lower response times compared to the others, while GetLocationHierarchyDetails shows a notable peak around 2100 ms.

Elapsed time (granularity: 42 sec)	GetImmediateChildrenByLocCodeAndLangCode (ms)	GetLocationDataByHierarchyName (ms)	GetLocationHierarchyByLangCode (ms)	GetLocationHierarchyDetails (ms)
14:33:18	400	400	400	400
14:36:58	500	500	500	500
14:40:39	1200	1200	1200	1200
14:44:20	1500	1500	1500	1500
14:48:00	1200	1200	1200	1200
14:51:41	1500	1500	1500	1500
14:55:22	1200	1200	1200	1200
14:59:02	1200	1200	1200	1200
15:02:43	1200	1200	1200	1200
15:06:24	1200	1200	1200	1200
15:10:05	1200	1200	1200	1200

Number of transactions / sec

Elapsed time (granularity: 44 sec)

Legend:

- GetImmediateChildrenByLocCodeAndLangCode (failure)
- GetImmediateChildrenByLocCodeAndLangCode (success)
- GetLocationDataByHierarchyName (failure)
- GetLocationDataByHierarchyName (success)
- GetLocationHierarchyByLangCode (failure)
- GetLocationHierarchyByLangCode (success)
- GetLocationHierarchyDetails (failure)
- GetLocationHierarchyDetails (success)