Quarterly Performance Monitoring Report (PMR) on Quality of Service of Wireless Data Services

	Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	MTNL	Reliance JIO	VIL
Report for quarter ending: March 2021						Compliance Status				
Andhra Pradesh	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations		100.00			98.81	99.98
				2G			99.40			
				3G			99.50			
	2	Successful data transmission download attempts	>80%	All Generations					100.00	
				2G (GSM)		100.00	96.60			100.00
				3G		100.00	98.70			100.00
				4G		100.00				100.00
	3	Successful data transmission upload attempts	>75%	All Generations					100.00	
				2G (GSM)		100.00	99.50			100.00
				3G		100.00	99.30			100.00
				4G		100.00				100.00
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1					
				2G	Plan 1	133.84	58.17			114.30
				3G	Plan 1	892.85	1343.17			1547.74
				4G	Plans	11510.39			6680.35	8035.84
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1					
				2G	Plan 1	153.95	127.33			222.34
				3G	Plan 1	1504.15	3207.34			4580.56
				4G	Plans	20427.67			21459.18	13994.96
	6	Latency	Data <250	All Generations					51.78	
				2G (GSM)		116.00	181.05			142.42
				3G		85.67	58.92			41.50
				4G		51.33				37.33
	7	PDP Context Activation Success Rate	≥95%	All Generations					99.76	
				2G (GSM)		99.96	99.87			99.86
				3G		99.96	99.48			95.95
				4G		99.82				95.74
	8	Drop rate :	≤5%	All Generations					0.46	
				2G (GSM)		2.10	0.70			3.96
				3G		0.77	0.90			0.96
				4G		0.35				0.57
	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations		100.00			97.03	99.98
				2G			100.00			
				3G			100.00			
	2	Successful data transmission download attempts	>80%	All Generations					100.00	
				2G (GSM)		100.00	98.30			100.00
				3G		100.00	98.60			100.00
				4G		100.00				100.00
	3	Successful data transmission upload attempts	>75%	All Generations					100.00	
				2G (GSM)		100.00	98.60			100.00
				3G		100.00	98.30			100.00
				4G		100.00				100.00
	4	Minimum download	To be measured	CDMA	Plan 1					

Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	MTNL	Reliance JIO	VIL
						Compliance Status			
				Report for quarter ending: March 2021					
	speed (Kbps)	for each Plan and Reported to TRAI	2G	Plan 1	109.04	90(Postpaid Data			192.12
						90(Postpaid Data			
						90(Postpaid Data			
						90(Postpaid Data			
						90(Postpaid Data			
						90(Postpaid Data			
						90(Postpaid Data			
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						90(Prepaid Data			
						90(Prepaid Data			
						90(Prepaid Data			
						90(Prepaid Data			
						90(Prepaid Data			
			3G	Plan 1	2385.57	1250(Postpaid Data			4575.68
						1250(Postpaid Data			
						1250(Postpaid Data			
						1250(Postpaid Data			
						1250(Postpaid Data			
						1250(Postpaid Data			
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						1250(Prepaid Data			

	Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	MTNL	Reliance JIO	VIL
Quarterly Performance Monitoring Report (PMR) on Quality of Service of Wireless Data Services										
Report for quarter ending: March 2021						**Compliance Status**				
							1250(Prepaid Data			
							1250(Prepaid Data			
							1250(Prepaid Data			
Assam				4G	Plans	8583.81			5589.35	11644.24
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1					
				2G	Plan 1	172.38	152(Postpaid Data			221.98
							152(Postpaid Data			
							152(Postpaid Data			
							152(Postpaid Data			
							152(Postpaid Data			
							152(Postpaid Data			
							152(Postpaid Data			
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							152(Prepaid Data			
							152(Prepaid Data			
							152(Prepaid Data			
							152(Prepaid Data			
							152(Prepaid Data			
							152(Prepaid Data			
				3G	Plan 1	3389.92	2893(Postpaid Data			6996.14
							2893(Postpaid Data			
							2893(Postpaid Data			
							2893(Postpaid Data			
							2893(Postpaid Data			
							2893(Postpaid Data			
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							2893(Prepaid Data			
							2893(Prepaid Data			

	Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	MTNL	Reliance JIO	VIL
top		**Quarterly Performance Monitoring Report (PMR) on Quality of Service of Wireless Data Services**								
		Report for quarter ending: March 2021					**Compliance Status**			

	Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	MTNL	Reliance JIO	VIL
							2893(Prepaid Data			
							2893(Prepaid Data			
							2893(Prepaid Data			
							2893(Prepaid Data			
							2893(Prepaid Data			
							2893(Prepaid Data			
							2893(Prepaid Data			
							2893(Prepaid Data			
				4G	Plans	18114.90			18095.88	21148.27
	6	Latency	Data <250	All Generations					61.59	
				2G (GSM)		173.67	**251.60**			149.58
				3G		141.67	162.13			60.08
				4G		59.33				59.33
	7	PDP Context Activation Success Rate	≥95%	All Generations					99.83	
				2G (GSM)		99.84	97.87			99.64
				3G		98.20	98.56			97.80
				4G		98.96				98.62
	8	Drop rate :	≤5%	All Generations					0.46	
				2G (GSM)		1.95				2.65
				3G		0.37	1.20			0.66
				4G		0.39				0.54
Bihar and Jharkhand	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations		100.00			98.66	100.00
				2G			100.00			
				3G			100.00			
	2	Successful data transmission download attempts	>80%	All Generations					100.00	
				2G (GSM)		99.50	100.00			100.00
				3G		NA	100.00			100.00
				4G		100.00				100.00
	3	Successful data transmission upload attempts	>75%	All Generations					100.00	
				2G (GSM)		99.71	100.00			100.00
				3G		NA	100.00			100.00
				4G		100.00				100.00
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1					
				2G	Plan 1	33.49	78.7(2G Postpaid)			139.28
							78.7(Prepaid 2G			
				3G	Plan 1	NA	839.3(3G Postpaid			5340.73
							839.3(3G Prepaid			
				4G	Plans	5774.67			5444.83	7623.71
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1					
				2G	Plan 1	127.79	116.9(2G Postpaid			173.28
							116.9(Prepaid 2G			
				3G	Plan 1	NA	1965.2(3G Postpaid			7071.06
							1965.2(3G Prepaid			

	Quarterly Performance Monitoring Report (PMR) on Quality of Service of Wireless Data Services								
	Report for quarter ending: March 2021				Compliance Status				
	Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	MTNL	Reliance JIO	VIL
				4G	Plans	8854.33			18290.22	11108.22
	6	Latency	Data <250	All Generations					62.53	
				2G (GSM)		148.40	191.30			80.75
				3G		NA	97.60			37.17
				4G		44.50				25.83
	7	PDP Context Activation Success Rate	≥95%	All Generations					99.83	
				2G (GSM)		99.94	98.88			98.66
				3G		NA	97.61			96.62
				4G		99.36				95.98
	8	Drop rate :	≤5%	All Generations					0.44	
				2G (GSM)		4.36				2.45
				3G		NA	0.90			1.21
				4G		0.63				0.38
Chennai	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations			100.00			
				3G						
	2	Successful data transmission download attempts	>80%	All Generations						
				2G (GSM)			98.23			
				3G			99.21			
				4G						
	3	Successful data transmission upload attempts	>75%	All Generations						
				2G (GSM)			97.70			
				3G			98.70			
				4G						
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1					
				2G	Plan 1		45.00			
				3G	Plan 1		487.00			
				4G	Plans					
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1					
				2G	Plan 1		107.00			
				3G	Plan 1		3343.00			
				4G	Plans					
	6	Latency	Data <250	All Generations						
				2G (GSM)			216.00			
				3G			28.00			
				4G						
	7	PDP Context Activation Success Rate	≥95%	All Generations						
				2G (GSM)			97.66			
				3G			99.11			
				4G						
	8	Drop rate :	≤5%	All Generations						
				2G (GSM)			3.17			
				3G			1.74			
				4G						

Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	MTNL	Reliance JIO	VIL
						Report for quarter ending: March 2021 — Compliance Status			
1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations		100.00			98.65	99.71
			3G						
2	Successful data transmission download attempts	>80%	All Generations					100.00	
			2G (GSM)		99.44				94.97
			3G		NA				99.73
			4G		100.00				98.53
3	Successful data transmission upload attempts	>75%	All Generations					100.00	
			2G (GSM)		99.06				97.59
			3G		NA				99.64
			4G		100.00				98.59
4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1					
			2G	Plan 1	47.06				128.00
			3G	Plan 1	NA				1878.72
			4G	Plans	11186.00			5179.35	6025.09
	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1					
			2G	Plan 1	106.79				204.62
			3G	Plan 1	NA				6612.37
			4G	Plans	18331.52			21399.71	19426.33
6	Latency	Data <250	All Generations					51.02	
			2G (GSM)		235.33				86.67
			3G		NA				35.83
			4G		66.77				21.00
7	PDP Context Activation Success Rate	≥95%	All Generations				100.00	99.74	
			2G (GSM)		99.95				98.96
			3G		NA				97.40
			4G		97.82				99.82
8	Drop rate :	≤5%	All Generations				3.94	0.41	
			2G (GSM)		2.20				1.59
			3G		NA				0.21
			4G		0.22				0.19
1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations		100.00	98.00		98.60	99.65
			2G (GSM)						
2	Successful data transmission download attempts	>80%	All Generations			99.00		100.00	
			2G (GSM)		100.00				100.00
			3G		NA				100.00
			4G		100.00				100.00
3	Successful data transmission upload attempts	>75%	All Generations			99.00		100.00	
			2G (GSM)		100.00				100.00
			3G		NA				100.00
			4G		100.00				100.00
4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1					
			2G	Plan 1	123.00	NA			82.33
			3G	Plan 1	NA	2203Kbps			2965.67

Delhi

	Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	MTNL	Reliance JIO	VIL
Gujarat				4G	Plans	6704.33			8743.07	9686.00
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1					
				2G	Plan 1	155.33	NA			154.33
				3G	Plan 1	NA	3448Kbps			6150.33
				4G	Plans	14932.00			22586.12	24984.00
	6	Latency	Data <250	All Generations			107.00		40.95	
				2G (GSM)		240.00				91.67
				3G		NA				32.33
				4G		32.00				32.00
	7	PDP Context Activation Success Rate	≥95%	All Generations			99.74		99.81	
				2G (GSM)		99.98				98.88
				3G		NA				98.34
				4G		99.94				99.97
	8	Drop rate :	≤5%	All Generations			1.07		0.39	
				2G (GSM)		4.95				2.04
				3G		NA				0.80
				4G		0.72				0.33
Himachal Pradesh	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations		100.00	100.00		97.99	99.97
				2G (GSM)						
				3G						
	2	Successful data transmission download attempts	>80%	All Generations			98.70		100.00	
				2G (GSM)		100.00				100.00
				3G		NA				100.00
				4G		100.00				99.67
	3	Successful data transmission upload attempts	>75%	All Generations			97.70		100.00	
				2G (GSM)		100.00				100.00
				3G		NA				100.00
				4G		100.00				100.00
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1					
				2G	Plan 1	86.00	66.70			100.01
				3G	Plan 1	NA	811.00			2763.08
				4G	Plans	1826.41	1978.30		5538.64	5409.79
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1					
				2G	Plan 1	162.00	120.00			141.08
				3G	Plan 1	NA	2416.70			4282.98
				4G	Plans	6502.63	8176.70		20802.67	15975.38
	6	Latency	Data <250	All Generations			78.70		46.22	
				2G (GSM)		222.00				170.83
				3G		NA				82.50
				4G		97.00				29.83
	7	PDP Context Activation Success Rate	≥95%	All Generations			99.10		99.85	
				2G (GSM)		99.84				97.20
				3G		NA				96.57

	Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	MTNL	Reliance JIO	VIL
				Quarterly Performance Monitoring Report (PMR) on Quality of Service of Wireless Data Services						
				Report for quarter ending: March 2021			Compliance Status			
Haryana				4G		99.10				99.43
	8	Drop rate :	≤5%	All Generations			0.90		0.37	
				2G (GSM)		1.28				4.61
				3G		NA				0.44
				4G		0.28				0.43
	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations		100.00	98.83		97.87	99.93
				2G (GSM)						
	2	Successful data transmission download attempts	>80%	All Generations			83.33		100.00	
				2G (GSM)		100.00				100.00
				3G		NA				100.00
				4G		100.00				100.00
	3	Successful data transmission upload attempts	>75%	All Generations			86.67		100.00	
				2G (GSM)		100.00				100.00
				3G		NA				100.00
				4G		100.00				100.00
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1					
				2G	Plan 1	161.33	225.67			94.06
				3G	Plan 1	NA	1409.67			1892.77
				4G	Plans	2588.34	1596.00		13124.31	6155.87
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1					
				2G	Plan 1	213.00	254.77			158.58
				3G	Plan 1	NA	2273.00			4391.26
				4G	Plans	27446.39	3155.33		25301.71	13767.61
	6	Latency	Data <250	All Generations			117.00		44.74	
				2G (GSM)		219.67				134.08
				3G		NA				109.08
				4G		86.63				68.33
	7	PDP Context Activation Success Rate	≥95%	All Generations			96.86		99.81	
				2G (GSM)		99.84				99.21
				3G		NA				97.88
				4G		99.14				99.90
	8	Drop rate :	≤5%	All Generations			3.14		0.42	
				2G (GSM)		1.89				4.50
				3G		NA				1.37
				4G		0.03				0.28
	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations		100.00	97.63		96.93	99.91
				3G						
	2	Successful data transmission download attempts	>80%	All Generations			96.00		100.00	
				2G (GSM)		100.00				100.00
				3G		NA				100.00
				4G		100.00				100.00
	3	Successful data transmission upload attempts	>75%	All Generations			87.00		100.00	
				2G (GSM)		100.00				100.00

	Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	MTNL	Reliance JIO	VIL
				Report for quarter ending: March 2021			Compliance Status			
Jammu and Kashmir		attempts		3G		NA				100.00
				4G		100.00				99.67
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1					
				2G	Plan 1	179.36	39.75			172.76
				3G	Plan 1	NA	1504.00			6895.85
				4G	Plans	9397.69			6761.47	6819.94
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1					
				2G	Plan 1	231.48	84.06			220.50
				3G	Plan 1	NA	2385.33			10054.03
				4G	Plans	10911.92			16732.76	16633.50
	6	Latency	Data <250	All Generations			153.00		44.76	
				2G (GSM)		212.67				150.50
				3G		NA				35.83
				4G		104.33				31.92
	7	PDP Context Activation Success Rate	≥95%	All Generations			98.00		99.82	
				2G (GSM)		100.00				99.59
				3G		NA				99.27
				4G		100.00				99.32
	8	Drop rate :	≤5%	All Generations			1.50		0.34	
				2G (GSM)		1.04				4.22
				3G		NA				0.84
				4G		0.29				0.46
Kolkata	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations		100.00	100.00		98.83	99.90
				3G						
	2	Successful data transmission download attempts	>80%	All Generations			93.00		100.00	
				2G (GSM)		100.00				99.75
				3G		NA				NA
				4G		100.00				100.00
	3	Successful data transmission upload attempts	>75%	All Generations			90.00		100.00	
				2G (GSM)		100.00				100.00
				3G		NA				NA
				4G		100.00				100.00
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1					
				2G	Plan 1	23.87	62.00			194.81
				3G	Plan 1	NA	906.66			NA
				4G	Plans	16127.43			4857.89	15840.72
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1					
				2G	Plan 1	29.34	102.33			219.55
				3G	Plan 1	NA	2820.00			NA
				4G	Plans	25882.82			17296.79	27288.70
	6	Latency	Data <250	All Generations			191.00		44.19	
				2G (GSM)		204.67				136.33
				3G		NA				NA

	Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	MTNL	Reliance JIO	VIL
				Report for quarter ending: March 2021			**Compliance Status**			
				4G		35.52				28.00
	7	PDP Context Activation Success Rate	≥95%	All Generations					99.83	
				2G (GSM)		100.00	99.77			99.15
				3G		NA	99.85			NA
				4G		99.95				99.98
	8	Drop rate :	≤5%	All Generations			1.40		0.26	
				2G		2.44				4.16
				3G		NA				NA
				4G		0.11				0.15
Kerala	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations		100.00	NA		98.66	99.97
				2G (GSM)						
	2	Successful data transmission download attempts	>80%	All Generations			100.00		100.00	
				2G (GSM)		100.00				100.00
				3G		NA				100.00
				4G		100.00				100.00
	3	Successful data transmission upload attempts	>75%	All Generations			100.00		100.00	
				2G (GSM)		100.00				100.00
				3G		NA				100.00
				4G		100.00				100.00
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1					
				2G	Plan 1	49.00	18.33kbps			174.73
				3G	Plan 1	NA	109kbps			3843.55
				4G	Plans	6157.60	221.6kbps		10407.49	17855.20
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1					
				2G	Plan 1	126.79	84.66kbps			212.34
				3G	Plan 1	NA	736.66kbps			6338.98
				4G	Plans	12567.11	1540.00kbps		21713.89	35275.25
	6	Latency	Data <250	All Generations			87.66ms		45.72	
				2G (GSM)		241.33				91.83
				3G		NA				26.00
				4G		92.33				22.33
	7	PDP Context Activation Success Rate	≥95%	All Generations			100.00		99.85	
				2G (GSM)		99.35				98.62
				3G		NA				96.32
				4G		99.75				99.44
	8	Drop rate :	≤5%	All Generations			0.00		0.45	
				2G (GSM)		4.37				4.60
				3G		NA				0.97
				4G		0.58				0.12
	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations		100.00	100.00		98.68	99.83
				2G (GSM)						
	2	Successful data transmission download attempts	>80%	All Generations					100.00	
				2G (GSM)		100.00	93.33			100.00

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	Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	MTNL	Reliance JIO	VIL
				Report for quarter ending: March 2021			**Compliance Status**			
Karnataka		attempts			3G	NA	100.00			100.00
					4G	100.00				100.00
	3	Successful data transmission upload attempts	>75%	All Generations					100.00	
				2G (GSM)		100.00	90.00			100.00
				3G		NA	100.00			100.00
				4G		100.00				100.00
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1					
				2G	Plan 1	78.03	93.58			210.26
				3G	Plan 1	NA	2697.43			5992.41
				4G	Plans	2053.18			6810.64	34333.32
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1					
				2G	Plan 1	187.90	141.92			253.55
				3G	Plan 1	NA	4850.94			10006.43
				4G	Plans	19365.51			24306.01	40501.11
	6	Latency	Data <250	All Generations			203.10		49.16	
				2G (GSM)		171.80				56.17
				3G		NA				24.83
				4G		35.53				21.67
	7	PDP Context Activation Success Rate	≥95%	All Generations			95.66		99.81	
				2G (GSM)		99.78				95.05
				3G		NA				95.23
				4G		99.59				95.44
	8	Drop rate :	≤5%	All Generations			0.63		0.49	
				2G (GSM)		0.57				1.29
				3G		NA				0.44
				4G		0.12				0.07
Maharashtra	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations		100.00	99.22		98.64	99.88
				2G (GSM)						
	2	Successful data transmission download attempts	>80%	All Generations			98.36		100.00	
				2G (GSM)		100.00				99.17
				3G		NA				100.00
				4G		100.00				99.26
	3	Successful data transmission upload attempts	>75%	All Generations			96.11		100.00	
				2G (GSM)		100.00				100.00
				3G		NA				100.00
				4G		100.00				99.07
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1					
				2G	Plan 1	72.00	105.00			111.87
				3G	Plan 1	NA	4044.00			5548.73
				4G	Plans	3932.33			6771.51	12429.29
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1					
				2G	Plan 1	127.82	121.00			206.07
				3G	Plan 1	NA	4143.00			7887.73

	Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	MTNL	Reliance JIO	VIL
						Report for quarter ending: March 2021	**Compliance Status**			
				4G	Plans	14879.66			24237.28	22378.30
	6	Latency	Data <250	All Generations			117.00		55.49	
				2G (GSM)		237.34				55.25
				3G		NA				27.42
				4G		90.00				21.83
	7	PDP Context Activation Success Rate	≥95%	All Generations			97.31		99.79	
				2G (GSM)		99.97				99.99
				3G		NA				99.47
				4G		99.96				98.65
	8	Drop rate :	≤5%	All Generations			2.01		0.54	
				2G (GSM)		4.75				1.93
				3G		NA				1.54
				4G		0.67				0.29
Madhya Pradesh	1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations		100.00			98.78	99.86
				2G			98.13			
				3G			98.19			
	2	Successful data transmission download attempts	>80%	All Generations					100.00	
				2G (GSM)		100.00	100.00			96.17
				3G		NA	100.00			100.00
				4G		100.00				100.00
	3	Successful data transmission upload attempts	>75%	All Generations					100.00	
				2G (GSM)		100.00	100.00			99.00
				3G		NA	100.00			99.17
				4G		100.00				100.00
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1					
				2G	Plan 1	145.87				76.00
				3G	Plan 1	NA	1165(3G Postpaid			2352.42
							1314(3G Postpaid			
							1351(3G Postpaid			
							1482(3G Postpaid			
							1652(3G Postpaid			
							1172(3G Prepaid			
							1268(3G Prepaid			
							1255(3G Prepaid			
							2574(3G Prepaid			
							2852(3G Prepaid			
							3248(3G Prepaid			
							3764(3G Prepaid			
							3849(3G Prepaid			
				4G	Plans	8172.85			9387.28	8585.71
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1					
				2G	Plan 1	219.20				189.86
				3G	Plan 1	NA	2512(3G Postpaid			4837.52

	Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	MTNL	Reliance JIO	VIL
Quarterly Performance Monitoring Report (PMR) on Quality of Service of Wireless Data Services										
						Report for quarter ending: March 2021		**Compliance Status**		
N							2881(3G Postpaid			
							3245(3G Postpaid			
							3467(3G Postpaid			
							3842(3G Postpaid			
							3666(3G Prepaid			
							2276(3G Prepaid			
							4564(3G Prepaid			
							3845(3G Prepaid			
							3502(3G Prepaid			
							3454(3G Prepaid			
							4378(3G Prepaid			
							4328(3G Prepaid			
				4G	Plans	19687.11			21295.79	21011.65
	6	Latency	Data <250	All Generations					49.90	
				2G (GSM)		123.33	220.20			157.08
				3G		NA	113.80			96.75
				4G		27.67				31.50
	7	PDP Context Activation Success Rate	≥95%	All Generations					99.50	
				2G (GSM)		99.75	96.90			99.87
				3G		NA	97.70			99.28
				4G		99.95				96.91
	8	Drop rate :	≤5%	All Generations					0.41	
				2G (GSM)		4.87				0.87
				3G		NA	1.60			0.71
				4G		0.59				0.37
Mumbai	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations		100.00		99.18	98.83	99.92
				3G						
	2	Successful data transmission download attempts	>80%	All Generations					100.00	
				2G (GSM)		100.00		100.00		100.00
				3G		NA		100.00		NA
				4G		100.00				100.00
	3	Successful data transmission upload attempts	>75%	All Generations					100.00	
				2G (GSM)		100.00		100.00		100.00
				3G		NA		99.38		NA
				4G		100.00				100.00
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1					
					Plan 2					
				2G	Plan 1	85.26		67.81		152.40
				3G	Plan 1	NA		796.28		NA
				4G	Plans	6111.59			4038.84	16633.51
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1					
					Plan 2					
				2G	Plan 1	179.63		103.00		184.37

Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	MTNL	Reliance JIO	VIL
			3G	Plan 1	NA		998.35		NA
			4G	Plans	9997.28			16598.93	28062.56
6	Latency	Data <250	All Generations					36.26	
			2G (GSM)		113.00				85.33
			3G		NA		230.47		NA
			4G		32.00				12.33
7	PDP Context Activation Success Rate	≥95%	All Generations				100.00	99.76	
			2G (GSM)		99.98				98.33
			3G		NA				NA
			4G		99.94				99.95
8	Drop rate :	≤5%	All Generations				2.50	0.35	
			2G (GSM)		3.62				2.34
			3G		NA				NA
			4G		0.33				0.23
1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations		100.00			97.32	99.98
			2G			100.00			
			3G			100.00			
2	Successful data transmission download attempts	>80%	All Generations					100.00	
			2G (GSM)		100.00	100.00			100.00
			3G		100.00	100.00			100.00
			4G		100.00				100.00
3	Successful data transmission upload attempts	>75%	All Generations					100.00	
			2G (GSM)		100.00	100.00			100.00
			3G		100.00	100.00			100.00
			4G		100.00				100.00
4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1					
			2G	Plan 1	107.94	43.40(Postpaid Data			192.96
						43.40(Postpaid Data			
						43.40(Postpaid Data			
						43.40(Postpaid Data			
						43.40(Postpaid Data			
						43.40(Prepaid Data			
						43.40(Prepaid Data			
						43.40(Prepaid Data			
						43.40(Prepaid Data			
						43.40(Prepaid Data			
						43.40(Prepaid Data			
						43.40(Prepaid Data			
						43.40(Prepaid Data			
						43.40(Prepaid Data			
			3G	Plan 1	2279.37	1831.09(Postpaid			4024.70
						1831.09(Postpaid			
						1831.09(Postpaid			

	Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	MTNL	Reliance JIO	VIL
							Compliance Status			
North East							1831.09(Postpaid			
							1831.09(Postpaid			
							1831.09(Prepaid			
							1831.09(Prepaid			
							1831.09(Prepaid			
							1831.09(Prepaid			
							1831.09(Prepaid			
							1831.09(Prepaid			
							1831.09(Prepaid			
							1831.09(Prepaid			
							1831.09(Prepaid			
				4G	Plans	6519.58			8581.53	8980.33
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1					
				2G	Plan 1	156.90	80.43(Postpaid Data			220.55
							80.43(Postpaid Data			
							80.43(Postpaid Data			
							80.43(Postpaid Data			
							80.43(Postpaid Data			
							80.43(Prepaid Data			
							80.43(Prepaid Data			
							80.43(Prepaid Data			
							80.43(Prepaid Data			
							80.43(Prepaid Data			
							80.43(Prepaid Data			
							80.43(Prepaid Data			
							80.43(Prepaid Data			
				3G	Plan 1	3395.07	2832.11(Postpaid			5302.88
							2832.11(Postpaid			
							28.32.11(Postpaid			
							2832.11(Postpaid			
							2832.11(Postpaid			
							2832.11(Prepaid			
							2832.11(Prepaid			
							2832.11(Prepaid			
							2832.11(Prepaid			
							2832.11(Prepaid			
							2832.11(Prepaid			
							2832.11(Prepaid			
							2832.11(Prepaid			
							2832.11(Prepaid			
				4G	Plans	17758.99			21799.00	18297.30
	6	Latency	Data <250	All Generations					64.81	

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Report for quarter ending: March 2021					Compliance Status				
Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	MTNL	Reliance JIO	VIL
			2G (GSM)		187.67	248.67			149.17
			3G		147.33	107.67			60.00
			4G		74.00				59.33
7	PDP Context Activation Success Rate	≥95%	All Generations					99.12	
			2G (GSM)		99.85	97.16			99.64
			3G		99.99	96.34			97.80
			4G		99.36				98.62
8	Drop rate :	≤5%	All Generations					0.62	
			2G (GSM)		2.73				3.42
			3G		0.45	0.00			0.81
			4G		0.42				0.60
1	Service Activation /Provisioning	Within 4 hrs with 95% success rate.	All Generations		100.00			98.64	99.94
			2G (GSM)			100.00			
			3G			100.00			
			4G						
2	Successful data transmission download attempts	>80%	All Generations					100.00	
			2G (GSM)		100.00	100.00			100.00
			3G		NA	100.00			100.00
			4G		100.00				100.00
3	Successful data transmission upload attempts	>75%	All Generations					100.00	
			2G (GSM)		100.00	100.00			100.00
			3G		NA	100.00			100.00
			4G		100.00				100.00
4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1					
			2G	Plan 1	176.90	115(Postpaid Data			114.84
						115(Postpaid Data			
						115(Postpaid Data			
						115(Postpaid Data			
						115(Postpaid Data			
						115(Postpaid Data			
						115(Prepaid Combo			
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						115(Prepaid Combo			

Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	MTNL	Reliance JIO	VIL
						Report for quarter ending: March 2021 — Compliance Status			
						115(Prepaid Combo			
						115(Prepaid Combo			
						115(Prepaid Data			
						115(Prepaid Data			
						115(Prepaid Data			
						115(Prepaid Data			
						115(Prepaid Data			
						115(Prepaid Data			
			3G	Plan 1	NA	1812(Postpaid Data			4552.94
						1812(Postpaid Data			
						1812(Postpaid Data			
						1812(Postpaid Data			
						1812(Postpaid Data			
						1812(Postpaid Data			
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						1812(Prepaid Data			
						1812(Prepaid Data			
			4G	Plans	8517.21	1812(Postpaid Data		9583.40	11387.12
						1812(Postpaid Data			
						1812(Postpaid Data			
						1812(Postpaid Data			
						1812(Postpaid Data			
						1812(Postpaid Data			
						1812(Prepaid Combo			
						1812(Prepaid Combo			

	Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	MTNL	Reliance JIO	VIL
							Compliance Status			
Orissa							1812(Prepaid Combo			
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							1812(Prepaid Data			
							1812(Prepaid Data			
							1812(Prepaid Data			
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1					
				2G	Plan 1	212.38	211(Postpaid Data			204.20
							211(Postpaid Data			
							211(Postpaid Data			
							211(Postpaid Data			
							211(Postpaid Data			
							211(Postpaid Data			
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							211(Prepaid Data			
							211(Prepaid Data			

	Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	MTNL	Reliance JIO	VIL
Report for quarter ending: March 2021						Compliance Status				
							211(Prepaid Data			
							211(Prepaid Data			
							211(Prepaid Data			
							211(Prepaid Data			
				3G	Plan 1	NA	8333(Postpaid Data			9776.78
							8333(Postpaid Data			
							8333(Postpaid Data			
							8333(Postpaid Data			
							8333(Postpaid Data			
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							8333(Prepaid Data			
							8333(Prepaid Data			
							8333(Prepaid Data			
							8333(Prepaid Data			
				4G	Plans	16610.68	8333(Postpaid Data		26491.61	18592.98
							8333(Postpaid Data			
							8333(Postpaid Data			
							8333(Postpaid Data			
							8333(Postpaid Data			
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							8333(Prepaid Combo			
							8333(Prepaid Combo			

	Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	MTNL	Reliance JIO	VIL
							Compliance Status			

Report for quarter ending: March 2021

	Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	MTNL	Reliance JIO	VIL
							8333(Prepaid Combo			
							8333(Prepaid Combo			
							8333(Prepaid Combo			
							8333(Prepaid Combo			
							8333(Prepaid Combo			
							8333(Prepaid Combo			
							8333(Prepaid Combo			
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							8333(Prepaid Data			
							8333(Prepaid Data			
							8333(Prepaid Data			
							8333(Prepaid Data			
							8333(Prepaid Data			
	6	Latency	Data <250	All Generations					48.48	
				2G (GSM)		157.35	158.00			74.00
				3G		NA	66.60			35.67
				4G		101.67				17.51
	7	PDP Context Activation Success Rate	≥95%	All Generations					99.80	
				2G (GSM)		99.96	98.84			99.21
				3G		NA	98.60			97.05
				4G		99.91				99.71
	8	Drop rate :	≤5%	All Generations					0.43	
				2G (GSM)		4.93				1.87
				3G		NA	0.75			0.76
				4G		0.68				0.12
Punjab	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations		100.00	100.00		98.25	99.89
				2G (GSM)						
	2	Successful data transmission download attempts	>80%	All Generations			98.60		100.00	
				2G (GSM)		100.00				100.00
				3G		NA				100.00
				4G		100.00				100.00
	3	Successful data transmission upload attempts	>75%	All Generations			97.42		100.00	
				2G (GSM)		100.00				100.00
				3G		NA				100.00
				4G		100.00				100.00
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1					
				2G	Plan 1	69.67				81.68
				3G	Plan 1	NA	1819.90			3848.65
				4G	Plans	3454.29			4783.54	6271.39
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed	CDMA	Plan 1					
				2G	Plan 1	218.98				109.24

	Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	MTNL	Reliance JIO	VIL
							Compliance Status			
			speed.	3G	Plan 1	NA	2803.66			6077.32
				4G	Plans	31665.49			15997.18	17089.86
	6	Latency	Data <250	All Generations					54.54	
				2G (GSM)		232.67				161.25
				3G		NA	121.48			47.00
				4G		81.00				31.00
	7	PDP Context Activation Success Rate	≥95%	All Generations			98.71		99.73	
				2G (GSM)		99.83				97.96
				3G		NA				96.71
				4G		98.56				99.65
	8	Drop rate :	≤5%	All Generations			1.57		0.28	
				2G (GSM)		0.71				3.44
				3G		NA				0.35
				4G		0.09				0.29
Rajasthan	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations		100.00			98.52	99.98
				3G			96.40			
	2	Successful data transmission download attempts	>80%	All Generations					100.00	
				2G (GSM)		100.00				100.00
				3G		NA	100.00			100.00
				4G		100.00				100.00
	3	Successful data transmission upload attempts	>75%	All Generations					100.00	
				2G (GSM)		100.00				100.00
				3G		NA	100.00			100.00
				4G		100.00				100.00
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1					
					Plan 2					
				2G	Plan 1	105.18	3133.00			117.14
				3G	Plan 1	NA	3507.00			3309.79
				4G	Plans	19510.56			12656.71	15602.92
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1					
				2G	Plan 1	124.41	3967.00			154.99
				3G	Plan 1	NA	4232.00			5062.51
				4G	Plans	25135.10			23980.74	24914.80
	6	Latency	Data <250	All Generations					51.42	
				2G (GSM)		164.67				158.00
				3G		NA	176.00			82.33
				4G		39.00				41.33
	7	PDP Context Activation Success Rate	≥95%	All Generations					99.85	
				2G (GSM)		99.16				99.27
				3G		NA	100.00			95.54
				4G		98.59				99.98
	8	Drop rate :	≤5%	All Generations					0.38	
				2G (GSM)		1.59				4.22

		Quarterly Performance Monitoring Report (PMR) on Quality of Service of Wireless Data Services							
		Report for quarter ending: March 2021			Compliance Status				
	Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	MTNL	Reliance JIO	VIL
Tamilnadu				3G		NA	0.29			1.75
				4G		0.25				0.52
	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations		100.00	100.00		99.05	99.78
				2G (GSM)						
	2	Successful data transmission download attempts	>80%	All Generations					100.00	
				2G (GSM)		100.00	97.25			100.00
				3G		NA	98.62			100.00
				4G		100.00	98.47			100.00
	3	Successful data transmission upload attempts	>75%	All Generations					100.00	
				2G (GSM)		100.00	97.52			100.00
				3G		NA	98.23			100.00
				4G		100.00	98.13			100.00
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1					
					Plan 2					
				2G	Plan 1	138.81	53.42			101.33
				3G	Plan 1	NA	766.44			3929.43
				4G	Plans	9389.95	1884.94		8181.02	9526.63
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1					
					Plan 2					
				2G	Plan 1	198.93	114.03			179.13
				3G	Plan 1	NA	1686.91			7826.44
				4G	Plans	14844.39	4004.53		20725.23	20609.68
	6	Latency	Data <250	All Generations					56.20	
				2G (GSM)		213.72	245.96			99.50
				3G		NA	141.75			24.17
				4G		51.70	121.69			24.00
	7	PDP Context Activation Success Rate	≥95%	All Generations					99.82	
				2G (GSM)		99.97	99.59			99.60
				3G		NA	99.67			97.46
				4G		99.68	100.00			99.06
	8	Drop rate :	≤5%	All Generations					0.47	
				2G (GSM)		1.37	0.00			3.77
				3G		NA	0.00			1.32
				4G		0.15	0.00			0.15
	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations		100.00	97.85		98.11	99.94
				2G (GSM)						
	2	Successful data transmission download attempts	>80%	All Generations			86.06		100.00	
				2G (GSM)		100.00				100.00
				3G		NA				100.00
				4G		100.00				100.00
	3	Successful data transmission upload attempts	>75%	All Generations			83.61		100.00	
				2G (GSM)		100.00				100.00
				3G		NA				100.00

	Sl. No.	Parameters	Benchmarks	Generations		Airtel	BSNL	MTNL	Reliance JIO	VIL
Report for quarter ending: March 2021							Compliance Status			
Uttar Pradesh (East)					4G	100.00				100.00
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1					
				2G	Plan 1	96.62	108.86			89.34
				3G	Plan 1	NA	2801.33			2872.85
				4G	Plans	3468.14			7671.00	7900.20
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1					
				2G	Plan 1	268.77	173.66			158.94
				3G	Plan 1	NA	3181.66			5373.15
				4G	Plans	7480.76			21451.68	15612.41
	6	Latency	Data <250	All Generations			131.66		54.04	
				2G (GSM)		220.00				90.75
				3G		NA				35.58
				4G		96.00				34.42
	7	PDP Context Activation Success Rate	≥95%	All Generations			99.77		99.84	
				2G (GSM)		99.84				99.62
				3G		NA				97.48
				4G		98.42				99.90
	8	Drop rate :	≤5%	All Generations			0.94		0.41	
				2G (GSM)		4.93				4.54
				3G		NA				0.99
				4G		1.05				0.25
Uttar Pradesh (West)	1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations		100.00	97.50		98.48	99.95
				2G (GSM)						
	2	Successful data transmission download attempts	>80%	All Generations			94.60		100.00	
				2G (GSM)		100.00				100.00
				3G		NA				100.00
				4G		100.00				100.00
	3	Successful data transmission upload attempts	>75%	All Generations			91.50		100.00	
				2G (GSM)		100.00				100.00
				3G		NA				100.00
				4G		100.00				100.00
	4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA	Plan 1					
				2G	Plan 1	68.34	98.00			113.67
				3G	Plan 1	NA	1983.00			3409.33
				4G	Plans	8589.86			7737.45	10597.67
	5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA	Plan 1					
				2G	Plan 1	110.21	162.67			161.00
				3G	Plan 1	NA	2978.00			6804.00
				4G	Plans	13083.59			21085.76	30123.33
	6	Latency	Data <250	All Generations			230.70		55.18	
				2G (GSM)		133.00				162.33
				3G		NA				59.67
				4G		73.00				44.33

Quarterly Performance Monitoring Report (PMR) on Quality of Service of Wireless Data Services

Report for quarter ending: March 2021				Compliance Status				
Sl. No.	Parameters	Benchmarks	Generations	Airtel	BSNL	MTNL	Reliance JIO	VIL
7	PDP Context Activation Success Rate	≥95%	All Generations		97.30		99.85	
			2G (GSM)	99.90				99.12
			3G	NA				97.58
			4G	98.53				99.35
8	Drop rate :	≤5%	All Generations		2.40		0.39	
			2G (GSM)	1.43				4.73
			3G	NA				3.12
			4G	0.18				0.40
1	Service Activation /Provisioning	Within 4 hrs with 95% success	All Generations	100.00	100.00		98.68	100.00
			3G					
2	Successful data transmission download attempts	>80%	All Generations		100.00		100.00	
			2G (GSM)	100.00				99.00
			3G	NA				100.00
			4G	100.00				100.00
3	Successful data transmission upload attempts	>75%	All Generations		100.00		100.00	
			2G (GSM)	100.00				100.00
			3G	NA				100.00
			4G	100.00				100.00
4	Minimum download speed (Kbps)	To be measured for each Plan and Reported to TRAI	CDMA Plan 1					
			2G Plan 1	45.78	47.52			141.35
			3G Plan 1	NA	1722.06			3636.21
			4G Plans	2722.91			9318.22	11373.91
5	Average Throughput for Packet data (Kbps)	>75% of the subscribed speed.	CDMA Plan 1					
			2G Plan 1	108.75	187.56			184.24
			3G Plan 1	NA	5098.34			7559.97
			4G Plans	10655.34			23069.38	23969.01
6	Latency	Data <250	All Generations		50.80		47.61	
			2G (GSM)	148.92				180.67
			3G	NA				62.67
			4G	53.72				27.00
7	PDP Context Activation Success Rate	≥95%	All Generations		95.06		99.79	
			2G (GSM)	99.95				99.09
			3G	NA				96.51
			4G	99.95				99.98
8	Drop rate :	≤5%	All Generations		4.93		0.44	
			2G (GSM)	1.32				4.06
			3G	NA				0.90
			4G	0.54				0.13

(Left margin region label: West Bengal)

Note 1: The text in the bracket (like RNC_PayG, Mblaze etc) are the plan names of the respective service provider.

Note 2: In case of all operators except CDMA operators provider is not offering different plans based on the data throughput.