



**PathView™
Data Assessment Report**

For

██████████ ██████████ College

**Prepared by
X10 NETWORKS**

December 08, 2010



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SUMMARY TEST RESULTS - ALL PATHS

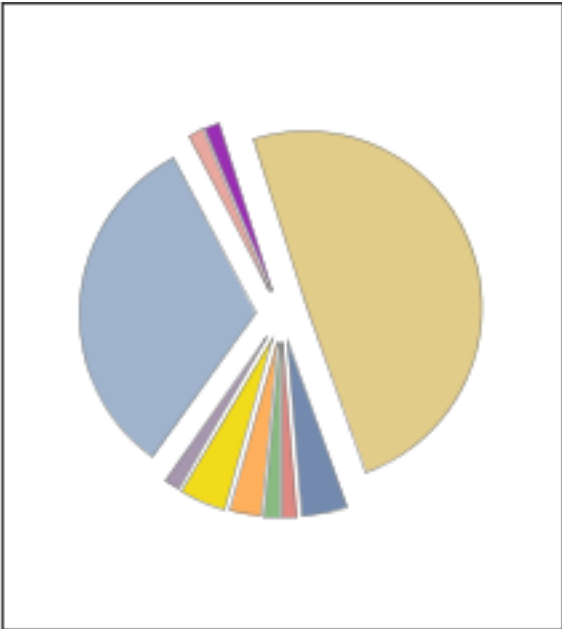
A total of 83 network segments were tested from 1 Sequencer.

Path Readiness



Excellent	28	33.7%
Good	21	25.3%
Marginal	17	20.5%
Very Poor	17	20.5%
<hr/>		
Total:	83	100.0%

Diagnostics and Observations



Congestion causing packet loss detected	3	4.2%
Detected MTU is nonstandard	1	1.4%
Full/Half-duplex conflict detected	1	1.4%
High utilization detected	2	2.8%
Media errors detected	3	4.2%
Network path does not properly support PMTU	1	1.4%
Packet loss detected	23	32.4%
Packet reordering detected	1	1.4%
Rate-limiting behavior detected	1	1.4%
Sub-optimal performance detected - network capacity	35	49.3%
<hr/>		
Total:	71	100.0%

SUMMARY TEST RESULTS - SEQUENCER "████████.63.218"

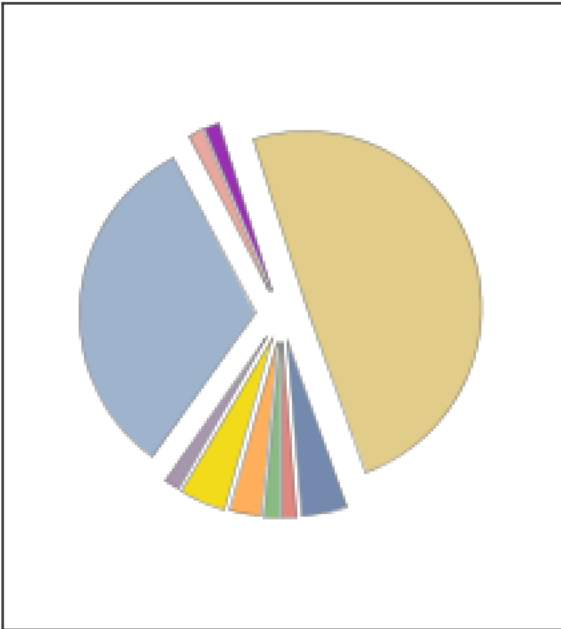
83 network segments were tested from this Sequencer.

Path Readiness



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Media errors detected	3	4.2%
Network path does not properly support PMTU	1	1.4%
Packet loss detected	23	32.4%
Packet reordering detected	1	1.4%
Rate-limiting behavior detected	1	1.4%
Sub-optimal performance detected - network capacity	35	49.3%
Total:	71	100.0%

[For more detail see diagnostics matrix for all paths tested from this Sequencer.](#)

DETAILED PATHVIEW TEST RESULTS





Duplex Conflicts (Detailed Test Results)

Test ID	Path Readiness	IP Address	Name	Total Cap Mb	Util %	Loss %	ReOrd %
188089		████████.63.71	converge880t-17 ██████████.bc.ca	-	-	8	0




Duplex mismatch; Packet loss

Set duplex manually; Identify loss sources











Media Errors / Congestion Causing Loss (Detailed Test Results)

Test ID	Path Readiness	IP Address	Name	Total Cap Mb	Util %	Loss %	ReOrd %
188145		████████.63.251	████████.63.251	0.29	15.5	13	0
188146		████████.63.254	████████.63.254	14.2	7.73	7	0
188143		████████.63.238	████████rm2149a ██████████.bc.ca	76.9	42.8	█	0
188144		████████.63.245	████████lap2550 ██████████.bc.ca	79.6	41.8	39	0


Sub-Optimal Performance (Detailed Test Results)

Test ID	Path Readiness	IP Address	Name	Total Cap Mb	Util %	Loss %	ReOrd %
188077		████████.63.62	████████.63.62	5.18	4.16	0	0
Sub-optimal capacity				Check NIC drivers			
188141		████████.63.226	████████.63.226	30.0	7.16	0	0
Sub-optimal capacity				Check NIC drivers			
188079		████████.63.64	████████.63.64	34.0	5.64	0	0
Sub-optimal capacity				Check NIC drivers			











Sub-Optimal Performance (Detailed Test Results)

Test ID	Path Readiness	IP Address	Name	Total Cap Mb	Util %	Loss %	ReOrd %
188068		████████.63.51	████████.63.51	34.6	2.98	2	0
Sub-optimal capacity; Packet loss				Check NIC drivers; Identify loss sources			
188102		████████.63.108	████████.63.108	39.9	5.78	< 1	0
Sub-optimal capacity; Packet loss				Check NIC drivers; Identify loss sources			
188091		████████.63.73	cp-300-450-mav--04-33-c6 ██████████ bc.ca	42.0	9.34	1	16
Sub-optimal capacity; Packet loss; Reordering				Check NIC teaming; Check NIC drivers; Identify loss sources			
188086		████████.63.77	████████.63.77	52.1	16.8	1	0
Sub-optimal capacity; Packet loss				Check NIC drivers; Identify loss sources			
188087		████████.63.80	████████.63.80	56.9	17.0	1	0
Sub-optimal capacity; Packet loss				Check NIC drivers; Identify loss sources			
188084		████████.63.69	████████.63.69	57.0	6.85	0	0
Sub-optimal capacity				Check NIC drivers			
188130		████████.63.194	████████ staff	65.9	-	6	0
Sub-optimal capacity; Packet loss				Check NIC drivers; Identify loss sources			
188061		████████.63.50	████████.63.50	70.7	12.6	0	0
Sub-optimal capacity				Check NIC drivers			
188045		████████.63.26	████████.63.26	71.1	0.65	0	0
Sub-optimal capacity				Check NIC drivers			
188078		████████.63.63	████████.63.63	72.5	7.00	0	0
Sub-optimal capacity				Check NIC drivers			
188048		████████.63.28	████████.63.28	72.8	6.28	0	0
Sub-optimal capacity				Check NIC drivers			

Sub-Optimal Performance (Detailed Test Results)

Test ID	Path Readiness	IP Address	Name	Total Cap Mb	Util %	Loss %	ReOrd %
188046		████████.63.27	████████.63.27	73.2	96.1	0	0
Sub-optimal capacity; High utilization				Check NIC drivers; Resolve bottlenecks			
188049		████████.63.30	████████.63.30	73.2	0.51	0	0
Sub-optimal capacity				Check NIC drivers			
188069		████████.63.55	████████.63.55	73.6	2.17	0	0
Sub-optimal capacity				Check NIC drivers			
188083		████████.63.68	████████.63.68	73.6	11.6	0	0
Sub-optimal capacity				Check NIC drivers			
188126		████████.63.177	████████rm153a.████████bc.ca	74.2	9.11	0	0
Sub-optimal capacity				Check NIC drivers			
188140		████████.63.222	████████rm153b.████████bc.ca	74.4	10.5	0	0
Sub-optimal capacity				Check NIC drivers			
188143		████████.63.238	████████rm2149a.████████bc.ca	76.9	42.8	█	0
Sub-optimal capacity				Check NIC drivers			
188066		████████.63.41	████████bdc.████████bc.ca	78.1	1.60	0	0
Sub-optimal capacity				Check NIC drivers			
188062		████████.63.32	████████ras.████████bc.ca	78.2	3.53	0	0
Sub-optimal capacity				Check NIC drivers			
188109		████████.63.117	████████lap2843.████████bc.ca	79.2	5.82	0	0
Sub-optimal capacity				Check NIC drivers			
188119		████████.63.165	john-dell	79.4	10.7	0	0
Sub-optimal capacity				Check NIC drivers			

Sub-Optimal Performance (Detailed Test Results)

Test ID	Path Readiness	IP Address	Name	Total Cap Mb	Util %	Loss %	ReOrd %
188144		████████.63.245	████████lap2550 ██████████bc.ca	79.6	41.8	39	0
		Sub-optimal capacity; Packet loss		Check NIC drivers; Identify loss sources			
188110		████████.63.122	████████eiei ██████████bc.ca	80.4	3.72	< 1	0
		Sub-optimal capacity		Check NIC drivers			
188055		████████.63.44	142.27.63.44	84.6	31.7	0	0
		Sub-optimal capacity		Check NIC drivers			
188103		████████.63.109	████████203-jowens ██████████bc.ca	85.1	5.77	0	0
		Sub-optimal capacity		Check NIC drivers			
188104		████████.63.112	dc-50ac22899eca	85.5	7.97	0	0
		Sub-optimal capacity		Check NIC drivers			
188137		████████.63.209	████████cc-rm001b ██████████bc.ca	86.6	23.4	0	0
		Sub-optimal capacity		Check NIC drivers			
188116		████████.63.151	████████uas ██████████bc.ca	87.1	8.56	0	0
		Sub-optimal capacity		Check NIC drivers			
188088		████████.63.86	████████████████.63.86	87.3	10.9	0	0
		Sub-optimal capacity		Check NIC drivers			
188092		████████.63.91	rm194aa-████████████████bc.ca	87.3	8.92	0	0
		Sub-optimal capacity		Check NIC drivers			
188058		████████.63.46	████████████████.63.46	87.4	7.99	0	0
		Sub-optimal capacity		Check NIC drivers			

Detailed Test Results - Sequencer "████████.63.218"

Test ID	Path Readiness	IP Address	Name	Total Cap Mb	Util %	Loss %	ReOrd %
188040	↓	████████.63.19	████████.63.19	-	-	58	0
Packet loss				Identify loss sources			
188041	↓	████████.63.20	████████.63.20	-	-	62	0
Packet loss				Identify loss sources			
188043	↓	████████.63.24	████████.63.24	-	-	9	0
Rate limiting; Packet loss				Check for rate limiting; Identify loss sources			
188054	↓	████████.63.43	████████.63.43	-	-	29	0
Packet loss				Identify loss sources			
188089	↓	████████.63.71	converge880t-17 ██████████.bc.ca	-	-	8	0
Duplex mismatch; Packet loss				Set duplex manually; Identify loss sources			
188090	↓	████████.63.72	av2-00107f0e3f08 ██████████.bc.ca	-	-	34	0
Packet loss				Identify loss sources			
188117	↓	████████.63.154	tta3-0904-002 ██████████.bc.ca	-	-	8	0
Packet loss				Identify loss sources			
188145	↓	████████.63.251	████████.63.251	0.29	15.5	13	0
188071	↑	████████.63.56	████████.63.56	2.05	0.67	0	0
188074	↑	████████.63.59	████████.63.59	2.05	0.59	0	0
188076	↗	████████.63.61	████████.63.61	4.44	1.92	< 1	0
Packet loss				Identify loss sources			



Detailed Test Results - Sequencer "████████.63.218"

Test ID	Path Readiness	IP Address	Name	Total Cap Mb	Util %	Loss %	ReOrd %
188142		████████.63.227	████████.63.227	4.83	5.59	2	0
			Identify loss sources				
188052		████████.63.36	████████.63.36	4.84	3.32	0	0
188072		████████.63.57	████████.63.57	4.89	6.85	2	0
			Identify loss sources				
188077		████████.63.62	████████.63.62	5.18	4.16	0	0
			Check NIC drivers				
188085		████████.63.74	████████.63.74	6.93	8.27	1	0
			Identify loss sources				
188146		████████.63.254	████████.63.254	14.2	7.73	7	0
188082		████████.63.67	████████.63.67	16.7	2.47	0	0
188059		████████.63.47	████████.63.47	20.6	4.00	0	0
188075		████████.63.60	████████.63.60	22.4	4.42	< 1	0
			Identify loss sources				
188141		████████.63.226	████████.63.226	30.0	7.16	0	0
			Check NIC drivers				
188079		████████.63.64	████████.63.64	34.0	5.64	0	0
			Check NIC drivers				



Detailed Test Results - Sequencer "████████.63.218"







Test ID	Path Readiness	IP Address	Name	Total Cap Mb	Util %	Loss %	ReOrd %
188068		████████.63.51	████████.63.51	34.6	2.98	2	0
Sub-optimal capacity; Packet loss				Check NIC drivers; Identify loss sources			
188102		████████.63.108	████████.63.108	39.9	5.78	< 1	0
Sub-optimal capacity; Packet loss				Check NIC drivers; Identify loss sources			
188091		████████.63.73	cp-300-450-mav--04-33-c6 ██████████ bc.ca	42.0	9.34	1	16
Sub-optimal capacity; Packet loss; Reordering				Check NIC teaming; Check NIC drivers; Identify loss sources			
188056		████████.63.45	████████.63.45	45.0	65.8	0	0
High utilization				Resolve bottlenecks			
188038		████████.63.16	████████.63.16	47.9	4.72	0	0
188039		████████.63.17	████████.63.17	48.4	3.50	0	0
188060		████████.63.48	████████.63.48	49.8	17.3	0	0
188086		████████.63.77	████████.63.77	52.1	16.8	1	0
Sub-optimal capacity; Packet loss				Check NIC drivers; Identify loss sources			
188087		████████.63.80	████████.63.80	56.9	17.0	1	0
Sub-optimal capacity; Packet loss				Check NIC drivers; Identify loss sources			
188084		████████.63.69	████████.63.69	57.0	6.85	0	0
Sub-optimal capacity				Check NIC drivers			
188064		████████.63.35	edtech ██████████ bc.ca	63.7	22.3	0	0














Detailed Test Results - Sequencer "████████.63.218"

Test ID	Path Readiness	IP Address	Name	Total Cap Mb	Util %	Loss %	ReOrd %
188130		████████.63.194	████████staff	65.9	-	6	0
Sub-optimal capacity; Packet loss				Check NIC drivers; Identify loss sources			
188061		████████.63.50	████████.63.50	70.7	12.6	0	0
Sub-optimal capacity				Check NIC drivers			
188045		████████.63.26	████████.63.26	71.1	0.65	0	0
Sub-optimal capacity				Check NIC drivers			
188078		████████.63.63	████████.63.63	72.5	7.00	0	0
Sub-optimal capacity				Check NIC drivers			
188048		████████.63.28	████████.63.28	72.8	6.28	0	0
Sub-optimal capacity				Check NIC drivers			
188046		████████.63.27	████████.63.27	73.2	96.1	0	0
Sub-optimal capacity; High utilization				Check NIC drivers; Resolve bottlenecks			
188049		████████.63.30	████████.63.30	73.2	0.51	0	0
Sub-optimal capacity				Check NIC drivers			
188069		████████.63.55	████████.63.55	73.6	2.17	0	0
Sub-optimal capacity				Check NIC drivers			
188083		████████.63.68	████████.63.68	73.6	11.6	0	0
Sub-optimal capacity				Check NIC drivers			
188126		████████.63.177	████████rm153a.████████bc.ca	74.2	9.11	0	0
Sub-optimal capacity				Check NIC drivers			
188140		████████.63.222	████████rm153b.████████bc.ca	74.4	10.5	0	0
Sub-optimal capacity				Check NIC drivers			












Detailed Test Results - Sequencer "████████.63.218"

Test ID	Path Readiness	IP Address	Name	Total Cap Mb	Util %	Loss %	ReOrd %
188143		████████.63.238	████████rm2149a ██████████bc.ca	76.9	42.8	██████	0
188066		████████.63.41	████████bdc ██████████bc.ca	78.1	1.60	0	0
Sub-optimal capacity				Check NIC drivers			
188062		████████.63.32	████████ras ██████████bc.ca	78.2	3.53	0	0
Sub-optimal capacity				Check NIC drivers			
188109		████████.63.117	████████lap2843 ██████████bc.ca	79.2	5.82	0	0
Sub-optimal capacity				Check NIC drivers			
188119		████████.63.165	john-dell	79.4	10.7	0	0
Sub-optimal capacity				Check NIC drivers			
188144		████████.63.245	████████lap2550 ██████████bc.ca	79.6	41.8	39	0
188110		████████.63.122	████████eiei ██████████bc.ca	80.4	3.72	< 1	0
Sub-optimal capacity; Packet loss				Check NIC drivers; Identify loss sources			
188055		████████.63.44	████████.63.44	84.6	31.7	0	0
Sub-optimal capacity				Check NIC drivers			
188103		████████.63.109	████████203-jowens ██████████bc.ca	85.1	5.77	0	0
Sub-optimal capacity				Check NIC drivers			
188104		████████.63.112	dc-50ac22899eca	85.5	7.97	0	0
Sub-optimal capacity				Check NIC drivers			
188137		████████.63.209	████████cc-rm001b ██████████bc.ca	86.6	23.4	0	0
Sub-optimal capacity				Check NIC drivers			

Detailed Test Results - Sequencer "[REDACTED].63.218"

Test ID	Path Readiness	IP Address	Name	Total Cap Mb	Util %	Loss %	ReOrd %
188116		[REDACTED].63.151	[REDACTED]uas[REDACTED]bc.ca	87.1	8.56	0	0
Sub-optimal capacity				Check NIC drivers			
188088		[REDACTED].63.86	[REDACTED].63.86	87.3	10.9	0	0
Sub-optimal capacity				Check NIC drivers			
188092		[REDACTED].63.91	rm194aa-[REDACTED]bc.ca	87.3	8.92	0	0
Sub-optimal capacity				Check NIC drivers			
188058		[REDACTED].63.46	[REDACTED].63.46	87.4	7.99	0	0
Sub-optimal capacity				Check NIC drivers			
188136		[REDACTED].63.204	[REDACTED]rm2234a[REDACTED]bc.ca	87.5	24.4	0	0
188093		[REDACTED].63.95	[REDACTED]display2[REDACTED]bc.ca	87.7	26.8	0	0
188099		[REDACTED].63.104	[REDACTED]rm2125[REDACTED]bc.ca	88.8	22.8	0	0
188114		[REDACTED].63.138	rm141b-[REDACTED]bc.ca	89.0	15.5	0	0
188115		[REDACTED].63.149	[REDACTED]rm115a[REDACTED]bc.ca	89.3	4.83	0	0
188121		[REDACTED].63.168	[REDACTED].63.168	89.6	5.24	0	0
188122		[REDACTED].63.170	[REDACTED]ece7fa21e09[REDACTED]bc.ca	91.6	10.3	0	0

Detailed Test Results - Sequencer "[REDACTED].63.218"

Test ID	Path Readiness	IP Address	Name	Total Cap Mb	Util %	Loss %	ReOrd %
188098		[REDACTED].63.102	rm173b-[REDACTED].bc.ca	92.2	23.0	0	0
188081		[REDACTED].63.66	[REDACTED].63.66	92.9	6.10	0	0
188112		[REDACTED].63.124	[REDACTED]rm160aa [REDACTED].bc.ca	93.1	2.66	0	0
188100		[REDACTED].63.105	[REDACTED]132-2010-5	93.2	6.68	0	0
188120		[REDACTED].63.166	[REDACTED]rm215b [REDACTED].bc.ca	93.2	3.90	0	0
188128		[REDACTED].63.184	[REDACTED]rm157a [REDACTED].bc.ca	93.2	3.33	0	0
188139		[REDACTED].63.215	[REDACTED]rm196aa [REDACTED].bc.ca	93.3	3.95	0	0
188108		[REDACTED].63.115	[REDACTED].63.115	93.8	12.3	0	0
188096		[REDACTED].63.97	[REDACTED]rm196i [REDACTED].bc.ca	94.3	20.3	0	0
188127		[REDACTED].63.179	[REDACTED]books-pos [REDACTED].bc.ca	95.2	6.33	0	0
188129		[REDACTED].63.192	[REDACTED]lan-rgander [REDACTED].bc.ca	96.2	8.22	0	0



Detailed Test Results - Sequencer "[REDACTED].63.218"

Test ID	Path Readiness	IP Address	Name	Total Cap Mb	Util %	Loss %	ReOrd %
188101		[REDACTED].63.107	[REDACTED]lib-2010-10	96.3	5.50	0	0
188111		[REDACTED].63.123	[REDACTED]rm196-pos [REDACTED]bc.ca	96.5	3.09	0	0
188065		[REDACTED].63.39	linux2 [REDACTED]bc.ca	96.6	5.17	0	0
188097		[REDACTED].63.99	[REDACTED]rm176 [REDACTED]bc.ca	96.7	5.06	0	0
188138		[REDACTED].63.214	[REDACTED]rm156b [REDACTED]bc.ca	96.7	3.58	0	0
188134		[REDACTED].63.197	[REDACTED]rm187e [REDACTED]bc.ca	96.9	4.14	0	0