

Regional to HQ Traffic

Approach: Aggregate all leaf nodes into Ottawa via connected Region node

Assumptions: Under the point to point serial circuit model, the bandwidth available is the sum of the bandwidth available for the individual leaf nodes served.

Regional Node	Sites Served	Total Staff	Expected Volume (KBytes)	Expected Busy Min (KBytes)	Throughput (Kbits/s)
London		339	36462.6	455.8	60.8
	Stockholm	28	3011.7	37.6	5.0
	Helsinki	19	2043.6	25.5	3.4
	Oslo	28	3011.7	37.6	5.0
	Dublin	25	2689.0	33.6	4.5
	The Hague	61	6561.1	82.0	10.9
	Bonn	138	14843.2	185.5	24.7
	Brussels	31	3334.3	41.7	5.6
	NATO	74	7959.4	99.5	13.3
	Hundreds	8		Total	133.2
	n*19.2	153.6			
	Circuit	192		Circuit	192
	#DS-0s	3		#DS-0s	3
	Ratio	144%			144%

Regional Node	Sites Served	Total Staff	Expected Volume (KBytes)	Expected Busy Min (KBytes)	Throughput (Kbits/s)
Paris		216	23232.8	290.4	38.7
	Lisbon	50	5378.0	67.2	9.0
	Geneva	50	5378.0	67.2	9.0
	Vienna	55	5915.8	73.9	9.9
	Madrid	43	4625.1	57.8	7.7
	Berne	35	3764.6	47.1	6.3
	Rome	104	11186.2	139.8	18.6
	POECD	25	2689.0	33.6	4.5
	Hundreds	6		Total	103.6
	n*19.2	115.2			
	Circuit	128		Circuit	128
	#DS-0s	2		#DS-0s	2
	Ratio	124%			124%