

- c. Table 10.1 outlines the associated metrics based on the formula assuming a possible implementation of FDDI 100 Mb/s as the highest bandwidth that will be utilized within the SIGNET enterprise network.

$$\text{cost_metric} = \frac{10 \times HBw}{Bw}$$

HBw → Highest Bandwidth Feasible (*bits / sec*)

Bw → Link Bandwidth (*bits / sec*)

Link Name	Link Speed (bits/sec)	Cost Metric
Serial-SlowSpeed/Dialup	1200	833333
	2400	416667
	4800	208333
	9600	104167
Serial - Region/Mission	19200	52083
Serial - Trunking Lines	56000	17857
	64000	15625
	112000	8929
	128000	7813
	224000	4464
	256000	3906
	448000	2232
	512000	1953
	672000	1488
	768000	1302
Serial - T1	1536000	651
LAN - Token Ring	4000000	250
LAN - Ethernet	10000000	100
LAN - Token Ring	16000000	63
WAN - SMDS	45000000	22
LAN - FDDI	100000000	10

Table 10.1: OSPF Link Metrics