



OSPF and EIGRP Neighborship Requirements

Abbreviation	Meaning	Requirement	OSPF	EIGRP
M	MTU	IP MTU matches	Yes*	No
M	Metric Calculation	K-values (EIGRP) or cost (OSPF) used in metric calculation match	No	Yes
A	Authentication	Authentication needs to pass between the neighbors	Yes	Yes
N	Non-Passive	Must not be passive on the interface	Yes	Yes
T	Timers	Hello timer and Hold (EIGRP) or Dead (OSPF) timers match	Yes	No
R	Router ID	Needs to be unique	Yes	No
A	Area	Must be in the same area	Yes	n/a
P	Process	Process ID (OSPF) or ASN (EIGRP) matches	No	Yes
S	Subnet	Primary IP addresses on the interface must be on same subnet	Yes	Yes

* Could be seen as neighbor but topology exchange may not take place correctly

