Character	Characteristics	Description		Default Value	Dual Terms		Ba	Basic Configuration commands	
K1	Bandwidth	Smallest Ba Source and	andwidth across	1	Feasible Distance (FD)	Metric on local router to destination	Router eigr	Router eigrp <as no=""></as>	
K2	Load Interface L			0	Reported	Metric on neighbour to the destination	Network <r< td=""><td colspan="2">Network <network> <wildcard mask=""></wildcard></network></td></r<>	Network <network> <wildcard mask=""></wildcard></network>	
K3	Delay		Delay on all interfaces	1	Distance (RD)		no auto-sur	no auto-summary neighbor x.x.x.x clear ip eigrp x.x.x.x	
K4	Reliability		terface keepalive stats	0	Successor	Lowest FD to the destination	neighbor x.		
K5	MTU		TU of Interface	0	Feasible Successor	2 nd best to destination if feasibility condition is met	clear ip eigr		
	К1	K2 Load	K3 Load K3× DIX	К5	Feasibility Condition	Is met if RD to a network learned from neighbour is less than local routers FD.	IP summary	IP summary-address <network> <subnet mask=""></subnet></network>	
Metric =256 x (K2 x BW 56 - Load +				Packet Types		Route/Interface States	
	256				Hello	Neighbor discover, use multicast and unreliable	Passive	Route is reachable	
	Key features		Tables		АСК	Always unicast & use unreliable delivery.	Active	Unreachable, no FS exists	
Advance Distance Vector protocol			EIGRP Neighbor Table		Update	Convey route info. can be unicast or multicast and reliable	SIA (Stuck in	The condition when a route becomes unreachable and queries are not answered	
Diffusing Update Algorithm (DUAL)						Can be unicast or multicast and reliable	Active)		
Open Standard					Query/Reply		Passive	interface which does not participate in	
Administrative distance – 1 – Internal = 90 (Network Command) 2 – External = 170 (Redistribution) 3 – Summary = 5 (Route Summarization)		·			Request	Multicast or Unicast and unreliable	Interface	EIGRP but whose network is advertised	
		·	EIGRP Topology Table			Stub Options		Status & Troubleshooting	
Composite Metric			 Network Feasible distance (FD) Advertised Distance (AD) Next Hop 		Connected	Advertise connected routes matching network command	show ip eig	show ip eigrp interfaces	
Protocol Number = 88							show ip eig	show ip eigrp neighbors	
MD5 Authentication					Summary	Advertise summary Routes			
VLSM Suppor	t		Global Routing Table		Redistributed	Advertise redistributed routes		show ip eigrp topology	
Route Summarization			Network		Receive-Only	No Routes are advertised	debug ip ei	debug ip eigrp	
Very fast Con	vergence	 Metric (FD) Outbound Interface 		Static	Advertise static routes used with "redistribute	debug ip ei	debug ip eigrp packet		
Hello & Hold	Timers = 5/60 &15/2	180	Next Hop		static" command	debug ip ei	grp neighbors		