

First Hop Redundancy Protocols

Quick Reference Table



	HSRP	VRRP	GLBP
Standard	Proprietary	Standards Based	Proprietary
Primary/Backup	1 Primary. 1 backup. Others Listen.	1 Master. All others in Backup state.	1 AVG. Up to 3 other AVFs + secondary forwarders
Command to set priority	<code>Switch(config-if)# standby group priority priority</code>	<code>Switch(config-if)# vrrp group priority priority</code>	<code>Switch(config-if)# glbp group priority level</code>
Command to set IP	<code>Switch(config-if)# standby group ip ip-address</code>	<code>Switch(config-if)# vrrp group ip ip-address</code>	<code>Switch(config-if)# glbp group ip ip-address</code>
Group Range	0-255	0-255	0 - 1023
Default Group	0	None (need to specify)	None (need to specify)
Default priority	100	100	100
Unique group numbers	16	16	n/a
Priority Range	0-255	1-254	1-254
Multicast Address	224.0.0.2	224.0.0.18	224.0.0.102
Port	UDP 1985	n/a – IP protocol 112	UDP 3222
Default decrement	10	n/a	10
MAC Address used	0000.0c07.acxx. where xx = group.	0000.5e00.01xx. where xx=group.	0007.b4xx.xxyy. Where xxxx = six zeroes plus group number and yy=VF number.
Timers	Hello=3sec. Holddown=10sec.	Hello=1sec	Hello=3sec. Holddown=10sec.
Pre-empt default	Off	On	off
Pre-empt Command	<code>Switch(config-if)# standby group preempt [delay [minimum seconds] [reload seconds]]</code>	<code>Switch(config-if)# vrrp group preempt [delay seconds]</code>	<code>Switch(config-if)# glbp group preempt [delay minimum seconds]</code>
Timer Command	<code>Switch(config-if)# standby group timers msec hello msec holdtime</code>	<code>Switch(config-if)# vrrp group timers advertise msec interval</code>	<code>Switch(config-if)# glbp group timers msec hello msec holdtime</code>
Authentication	<code>Switch(config-if)# standby group authentication [string md5 [key-chain chain key string string]]</code>	<code>Switch(config-if)# vrrp group authentication string</code>	<code>Switch(config-if)# glbp group authentication text string</code>
Conceding the election	<code>Switch(config-if)# standby group track int [decrement value]</code>	none	<code>Switch(config)# track track interface int {line-protocol ip routing}</code> <code>Switch(config-if)# glbp group max [lower lower][upper upper]</code> <code>Switch(config-if)# glbp group weight track object [decrement decrement]</code>
Redirect /Timeout	n/a	n/a	<code>Switch(config-if)# glbp group timers redirect redirect timeout</code>