

## CCIE R&S Core Knowledge Question(10)

1. R1#show frame pvc interface serial 1/0 PVC Statistics for interface Serial1/0 (Frame Relay DTE)

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Active:0; Inactive:0; Deleted:0; Static
Local:0;
1:0;
0:0;
0:0;
Switched:0;
0:0;
0:0;
0:0;
Unused:0;
0:0;
0:0;
0:0; 0 DLCI = 103, DLCI USAGE = UNUSED,
PVC STATUS = ACTIVE, INTERFACE = Serial1/0 input pkts
0; output pkts
0; in bytes 0 out bytes
0; dropped pkts
0; in pkts dropped 0 out pkts dropped
0; out bytes
dropped 0 in FECN pkts 0; in BECN pkts
0; out FECN pkts 0 out BECN pkts
0; in DE pkts
0; out DE pkts 0 out bcst pkts
0; out bcst bytes 0 5 minute input rate 0 bits/sec, 0 packets/sec 5
minute output rate 0 bits/sec, 0 packets/sec pvc create time 04:48:15, last time pvc status changed 04:48:14 R1#show
traffic-shape serial 1/0 Interface:Se1/0 Access Target:Byte;
Sustain; Excess; Interval; Increment Adapt VC;
List; Rate; Limit; bits/int; bits/int;
(ms); (bytes); Active
-; 128000;
960; 3840; 3840;
30; 480; BECN Given the output
above, which type of traffic-shaping is configured on interface s1/0? Highlight for answer: Generic Traffic-Shaping ('traffic-shape'
command under interface s1/0). We can tell this because the VC(virtual circuit) field in the 'show traffic-shape serial 1/0?' output is
null. This is because GTS does not support per-VC traffic-shaping. 2. R3#sh frame map Serial0/0 (up): ip 155.3.0.3 dlci
503(0x1F7,0x7C70), static, broadcast, CISCO, status defined, active TCP/IP Header Compression (inherited), connections:
218959117 RTP Header Compression (inherited), connections: 218959117 R5#sh frame map Serial1/0 (up): ip 155.1.0.5 dlci
305(0x131,0x4C10), static, broadcast, CISCO, status defined, active TCP/IP Header Compression (enabled), connections: 256
RTP Header Compression (enabled), connections: 256 Given the above output, what is the fundamental difference between the
TCP and RTP header compression configurations on R3 and R5? Highlight for answer: On R3, TCP and RTP header compression
have been enabled on the interface level as indicated by the 'inherited' description in the 'show frame-relay map' output. On
R5 it has been enabled via the frame-relay map map statement(with the keyword 'compress'). 3. Which markings are trusted by
default on the interface when you configure the following on a Cisco 3560 switch: SW1(config)#int f0/1 SW1(config-if)#mls qos
trust Highlight for answer: If no keyword is specified when the command is entered, then DSCP markings are trusted by default
when the 'mls qos trust' interface-level command is configured. 4. By default, what is the TTL of an EBGP peering? Highlight for
answer: 1 5. Which protocol enables EIGRP routers to determine whether a path advertised by a neighbor is looped or loop-free,

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and allows a router running EIGRP to find alternate paths without waiting on updates from other routers? Highlight for answer:  
Diffusing update algorithm (DUAL)