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Network Security HW 20

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1. Fields

Immutable Version Internet Header Length Total Length Identification Protocol Source Address Destination Address

Mutable but predictable Destination Address

Mutable (zeroed prior to ICV calculation) Differentiated Services Code Point (DSCP) Explicit Congestion Notification (ECN) Flags Fragment Offset Time to Live (TTL) Header Checksum

1. Replay window a. Packet is discarded and nothing happened as it is in the past. No changes to the window parameters. b. The packet is received and authenticated. If the MAC passes authentication, the corresponding slot in the window is flagged. No changes to the window parameters. c. The packet is authenticated. If authentication passes, the window is expanded such that 150 is the new right edge. The slot in the window is flagged.