

IPv4

Orig IP hdr	TCP	Data
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IPv6

Orig IP hdr	Extension Headers	TCP	Data
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(a) Before applying AH

IPv4

Orig IP	AH	TCP	Data
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Authenticated

IPv6

Orig IP	Hop-by-hop, dest, routing, fragment	AH hdr	Dest	TCP	Data
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Authenticated

(b) Transport Mode

IPv4

New IP	AH hdr	Orig IP	TCP	Data
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Authenticated

IPv6

New IP hdr	Ext Hdr	AH hdr	Orig IP	Ext Hdr	TCP	Data
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Authenticated

(c) Tunnel Mode