

























































































New IP hdr (any options	Origin (any o	al IP 1 ptions	hdr TCP	Data	ì
v4 – AFTER APPLY	ING AH				
New IP hdr	AH 0	rigina any op	l IP hdr tions)	ТСР	Data
(any operons					
<authen< th=""><th>ticated except</th><th>for mutab</th><th>ble fields in the</th><th>e new IP hea</th><th>der> </th></authen<>	ticated except	for mutab	ble fields in the	e new IP hea	der>
<pre>Pv6 – BEFORE APF</pre>	ticated except	for mutab	ble fields in the	e new IP hea	der>
<pre>Pv6 - BEFORE APP New IP hdr</pre>	PLYING AH ext hdrs if present	for mutab	ble fields in the ext hdr	e new IP hea s nt TC	der> CP Data
New IP hdr	ticated except i PLYING AH ext hdrs if present	for mutab	hdr if prese	e new IP hea 's nt TC	der> P Data

















New IP hdr (any option)	Origin s) (any c	al IP hdr	ТСР	Data			
Pv4 – AFTER API	PLYING ESP						
	FSP	Origina	l TP hdr	TCDD	eta E	SP	ESP
New IP hdr (any option) IPv6 - BEFORE A	APPLYING ES	authenticatec	tions) encr d except for	rypted r mutable	fields	railer > >	Auu
New IP hdr (any option) IPv6 - BEFORE / New IP hdr	APPLYING ES	(any op) < authenticated SP Orig IP hdr	tions) enclose except for ext hdrs if present	rypted r mutable	fields	> > Data	





























Mobile Node	Foreign Agent	AAAF	АААН	Home Agent
Advertise Challeng Reg-Req MN-AA	ement & & A A Session-Ic	I = foo AMI Session-	R Id = foo HAR Session-Ic	l = bar
Reg-Rej	ply AMA	AM Session I = foo	A HAA Session-Ic	1 = bar 70






























































Definitions (Cont.)
 UMTS security context: a state that is established between a user and a serving network domain as a result of the execution of UMTS AKA. At both ends "UMTS security context data" is stored, that consists at least of the UMTS cipher/integrity keys CK and IK and the key set identifier KSI. One is still in a UMTS security context, if the keys CK/IK are converted into Kc to work with a GSM BSS. GSM security context: a state that is established between a user and a serving network domain usually as a result of the execution of GSM AKA. At both ends "GSM security context data" is stored, that consists at least of the GSM cipher key Kc and the cipher key sequence number CKSN. Quintet, UMTS authentication vector: temporary authentication and key agreement data that enables an VLR/SGSN to engage in UMTS AKA with a particular user. A quintet consists of five elements: a) a network challenge RAND, b) an expected user response XRES, c) a cipher key CK, d) an integrity key IK and e) a network authentication token AUTN.
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