Technical Specification Group Services and System Aspects Meeting #14, Kyoto, Japan, 17-20 December 2001

Source: SA WG3

Title: 2 CRs to 33.107: Start of secondary interception of an active PDP

context (Rel-4, Rel-5)

Document for: Approval

Agenda Item: 7.3.3

Spec	CR	Rev	Phase	Cat	Subject	Version-	Version	Doc-2nd-
						Current	-New	Level
33.107	009		Rel-4	F	Start of secondary interception of an active PDP context	4.1.0	4.2.0	S3-010485
33.107	010		Rel-5	А	Start of secondary interception of an active PDP context	5.0.0	5.1.0	S3-010486

3GPP TSG SA WG3 Security — S3#20

S3-010485

16 - 19 October, 2001, Sydney, Australia

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Other comments:

3GPP LI Saarbruecken Augu	ust 2	1-23											Tdoc S	S3LI01_104
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	CHANGE REQUEST													
*	33	.107	CR	009		¥	rev	-	ж	Curre	ent vers	sion:	4.1.0) H
For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the % symbols.														
Proposed change affects: # (U)SIM ME/UE Radio Access Network Core Network											Network X			
Title: #	# Start of secondary interception of an active PDP context													
Source: #	SA WG3-LI													
Work item code: ₩	ork item code: SEC1-LI Date: Aug 13,												13, 200	1
Category: Ж	y: # <mark>F</mark>									Rele	ase: #	REL	4	
	Deta	F (ess A (cor B (Add C (Fur D (Edi iled exp	sential or respondition of nctional itorial m planational	owing cate correction, ds to a co f feature), I modifica nodificatio ons of the TR 21.900	orrection tion of the an) above	n in a featu	ıre)			e) ;	R96 R97 R98 R99 R99 REL-4 REL-5	(GSM (Rele (Rele (Rele (Rele (Rele	ollowing re A Phase 2 Pease 1990 Pease 1990 Pease 1990 Pease 4) Pease 5)	2) 6) 7) 8)
Reason for change	Reason for change: ** Lack of "Start of interception of active PDP context" message, when another LEA (second or higher) requests interception of an already being intercepted target, which has at least one active PDP context.													
Summary of chang	n have f integer will ation will tri repore	ve alrerceptill required solutions of the solution of the solu	eady tion of uire I tion r the S DF2.	requirequires SGSN DF2 Percep	uested tive PI also to res the N to re then	d interce DP con o store e ADMI esend the will need n the se	eption text" the inf F to re he "St ed to r ubject	on the sale in the	subject, ort only to on of the ne terception					
Consequences if	¥	Miss	ing ca	pability o	of relial	hle s	secon	darv	inter	centic	n			
not approved:		IVIIOO	ing ca	pability 0	i iciiai	oic 3	,00011	uary	into	осрис	<i>.</i>			
Clauses affected:	Ж	5.1.1												
Other specs Affected:	*	Te	est spe	ore speci ecification pecification	ns	ns	¥							

5.1.1 X1 1-interface

The messages sent from the ADMF to the 3G ICEs (X1_1-interface) contain the:

- target identities (MSISDN, IMSI, IMEI or SIP URL) (see note 4);
- information whether the Content of Communication (CC) shall be provided (see note 1);
- address of Delivery Function 2 (DF2) for the intercept related information (see note 2);
- address of Delivery Function 3 (DF3) for the intercepted content of communications (see note 3);
- IA in case of location dependent interception.
- NOTE 1: As an option, the filtering whether intercept product and/or intercept related information has to be provided can be part of the delivery functions. (Note that intercept product options do not apply at the CSCF). If the option is used, the corresponding information can be omitted on the X1_1-interface, while "information not present" means "intercept product and related information has to be provided" for theICE. Furthermore the delivery function which is not requested has to be "pseudo-activated", in order to prevent error cases at invocation.
- NOTE 2: As an option, only a single DF2 is used by and known to every 3G ICE. In this case the address of DF2 can be omitted.
- NOTE 3: As an option, only a single DF3 is used by and known to every 3G ICE (except at the CSCFs). In this case the address of DF3 can be omitted.
- NOTE 4: Since the IMEI is not available, interception of IMEI is not applicable at the 3G Gateway.
- NOTE 5: Interception at the CSCFs is based only upon SIP URL. However, SIP URL as a target identity is not supported the other ICEs.

If after activation subsequently Content of Communications (CC) or Intercept Related Information (IRI) has to be activated (or deactivated) an "activation change request" with the same identity of the target is to be sent.

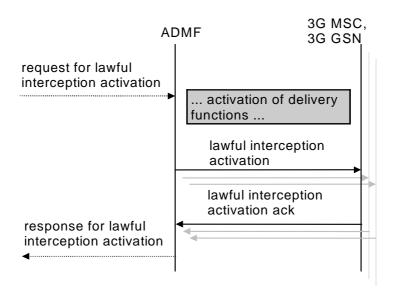


Figure 3: Information flow on X1 1-interface for Lawful Interception activation

Interception of a target can be activated on request from different LEAs and each LEA may request interception via a different identity. In this case, each target idntity on which to intercept will need to be sent via separate activation messages from ADMF to the 3G ICEs on the X1_1-interface. Each activation can be for IRI only, or both CC and IRI.

When several LEAs request activation on the same identity then the ADMF determines that there are existing activations on the identity. In this case, the ADMF <u>may (as an implementation option) will not</u> send an additional

activation message to the 3G ICEs-<u>except wW</u>hen the activation needs to change from IRI only to CC and IRI. In that case_an activation change message will be sent to the 3G ICEs.

In case of a secondary interception activation only the relevant LEAs will get the relevant IRIs.

Other comments:

3GPP TSG SA WG3 Security — S3#20

S3-010486

16 - 19 October, 2001, Sydney, Australia

3GPP LI Saarbruecken August 21-23											<i>Tdoc</i> S3LI01_105				
CR-Form-v3 CHANGE REQUEST															
ж	33.	.107	CR	010		₩ rev	-	Ж	Current v	ers/	ion:	5.0.0	ж		
For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the # symbols.															
Proposed change	affec	ts: X	(U)	SIM	ME/	UE	Rad	lio Ac	cess Netv	vorl	(Core N	letwork X		
Title: ♯	Start	t of sec	condar	y interce	eption o	of an ac	tive P	DP c	ontext						
Source: #	SA WG3-LI														
Work item code: ₩	SEC	C1-LI Da							Date.	<i>:</i>	策 <mark>Aug 13, 2001</mark>				
Category: ж	A								Release.	<i>:</i>	REL-	-5			
	Deta	A (cor B (Add C (Fur D (Edi iled exp	respond dition of nctional torial m olanatio	orrection) ds to a co f feature), modification ins of the TR 21.900	orrectior tion of f in) above	eature)			2 R96 R97 R98 R99 REL- REL-	-4	(Relea (Relea (Relea (Relea (Relea	1 Phase 2 ase 1996 ase 1997 ase 1998 ase 1999 ase 4) ase 5)	r) r) r)		
Reason for change	e: Ж	LEA (second	or high has at l	er) req	uests ir	terce	ption	of an alrea	ess ady	age, v being	when ar g interce	nother pted		
Summary of change: Enable two implementation solutions: One will involve DF2 only, which we remember the LEAs, which have already requested interception on the sand to forward the "Start of interception of active PDP context" IRI report the new LEAs. This solution will require DF2 also to store the information active PDP contexts. The alternative implementation solution requires the ADMF to resend the activation request, which will trigger the SGSN to resend the "Start of interception of active PDP context" IRI report to DF2. DF2 then will need to remembe LEAs, which have already requested interception on the subject, and to fit the "Start of interception of active PDP context" IRI report only to the next										subject, et only to n of the erception er the forward					
Consequences if not approved:	Ж	Miss	ing cap	oability o	f reliab	ole seco	ndary	inter	ception.						
Clauses affected:	ж	5.1.1													
Other specs Affected:	ж	Te	est spe	re specification	าร	ns 8	€								

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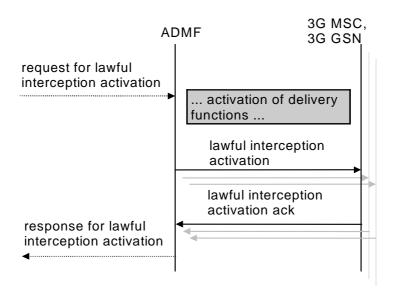


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