

CR-Form-v7.1

## PSEUDO-CHANGE REQUEST

33.878 CR CRNum rev - 0.0.3 Current version:

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the symbols.

Proposed change affects:  UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	Correction of figures		
<b>Source:</b>	Huawei		
<b>Work item code:</b>	Early IMS	<b>Date:</b>	5/11/2004
<b>Category:</b>		<b>Release:</b>	
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: <b>Ph2</b> (GSM Phase 2) <b>R96</b> (Release 1996) <b>R97</b> (Release 1997) <b>R98</b> (Release 1998) <b>R99</b> (Release 1999) <b>Rel-4</b> (Release 4) <b>Rel-5</b> (Release 5) <b>Rel-6</b> (Release 6) <b>Rel-7</b> (Release 7)

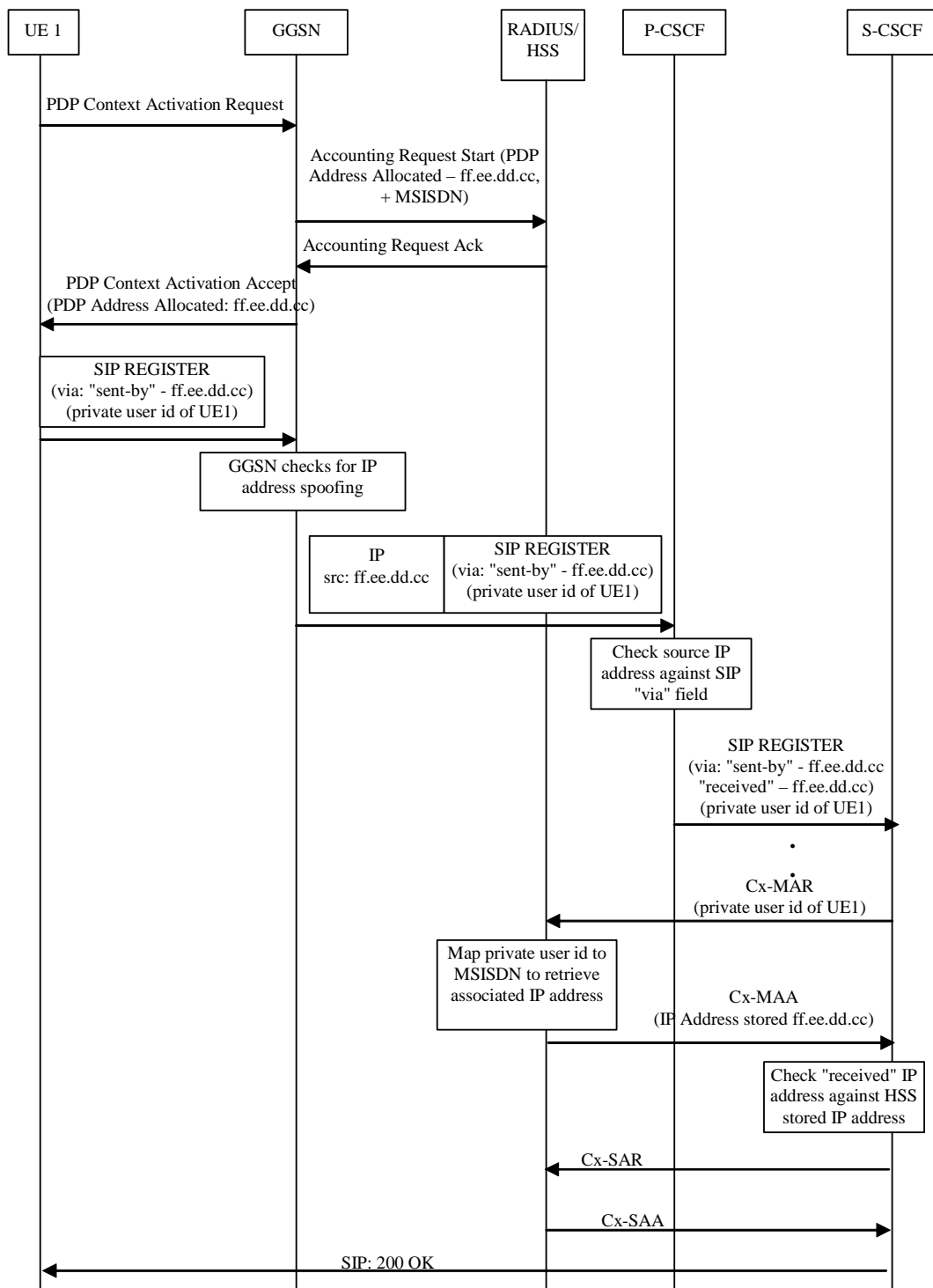
<b>Reason for change:</b>	In the figures of registration, there is not notification of registration status to the HSS after the authentication, then HSS don't know the result of authentication. it can not record the UE as registered when successful authentication, or delete the pending flag when unsuccessful authentication.
<b>Summary of change:</b>	Adding registration status notification to HSS in registration procedure
<b>Consequences if not approved:</b>	The registration procedure is incomplete

<b>Clauses affected:</b>	7.2.5.1, 7.2.5.2, 7.2.5.3										
<b>Other specs affected:</b>	<table border="1" style="border-collapse: collapse;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> </tr> </table>	Y	N	X	X	X	X	X	X	Other core specifications	
Y	N										
X	X										
X	X										
X	X										
		Test specifications									
		O&M Specifications									
<b>Other comments:</b>											

### 7.2.5.1 Successful registration

Figure 1 below describes the message flow for successful registration to the IMS that is specified by the early IMS security solution.

Note, that the “received” parameter is only sent from P-CSCF to S-CSCF under the conditions given in clause 7.2.3.1.



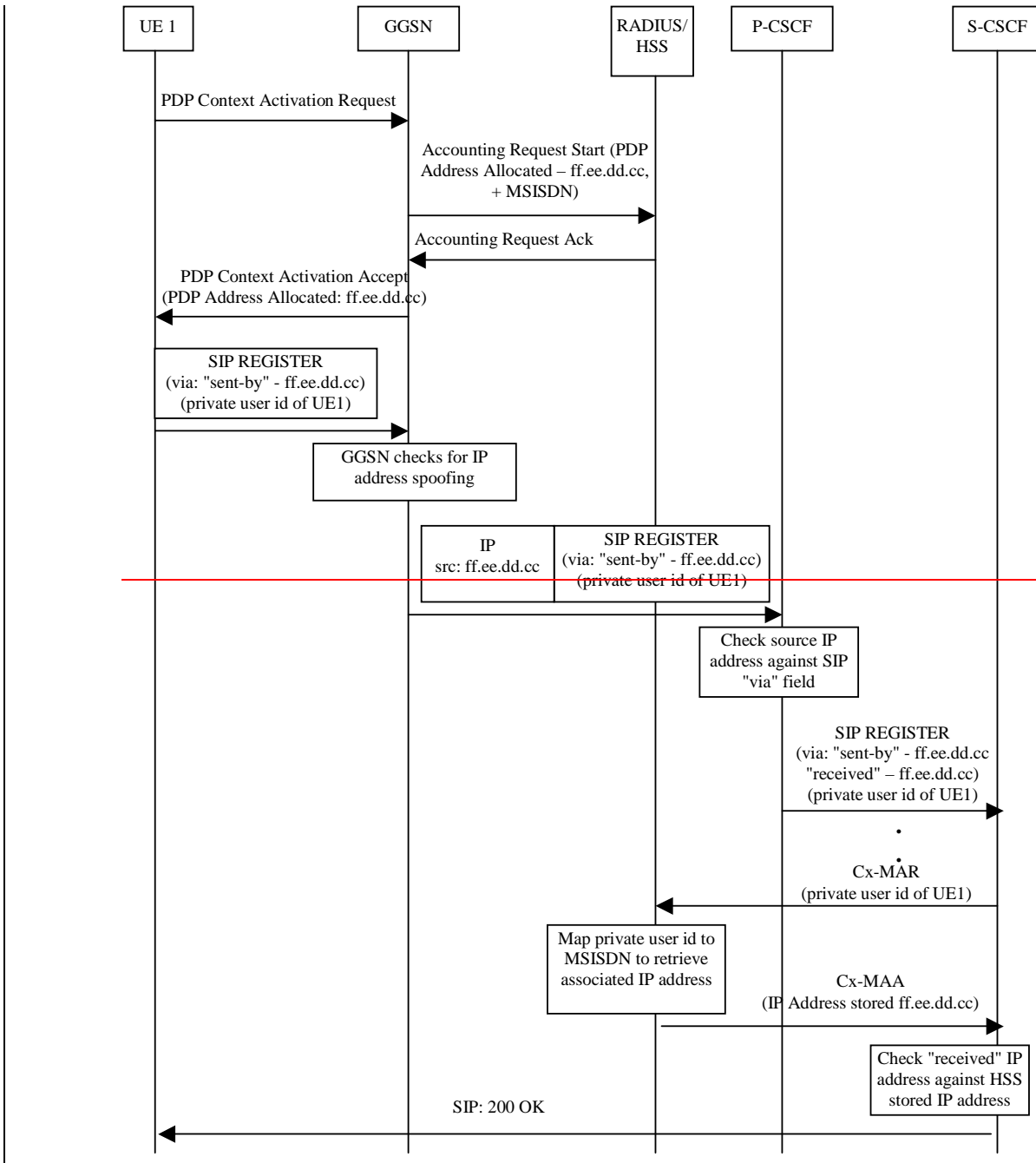
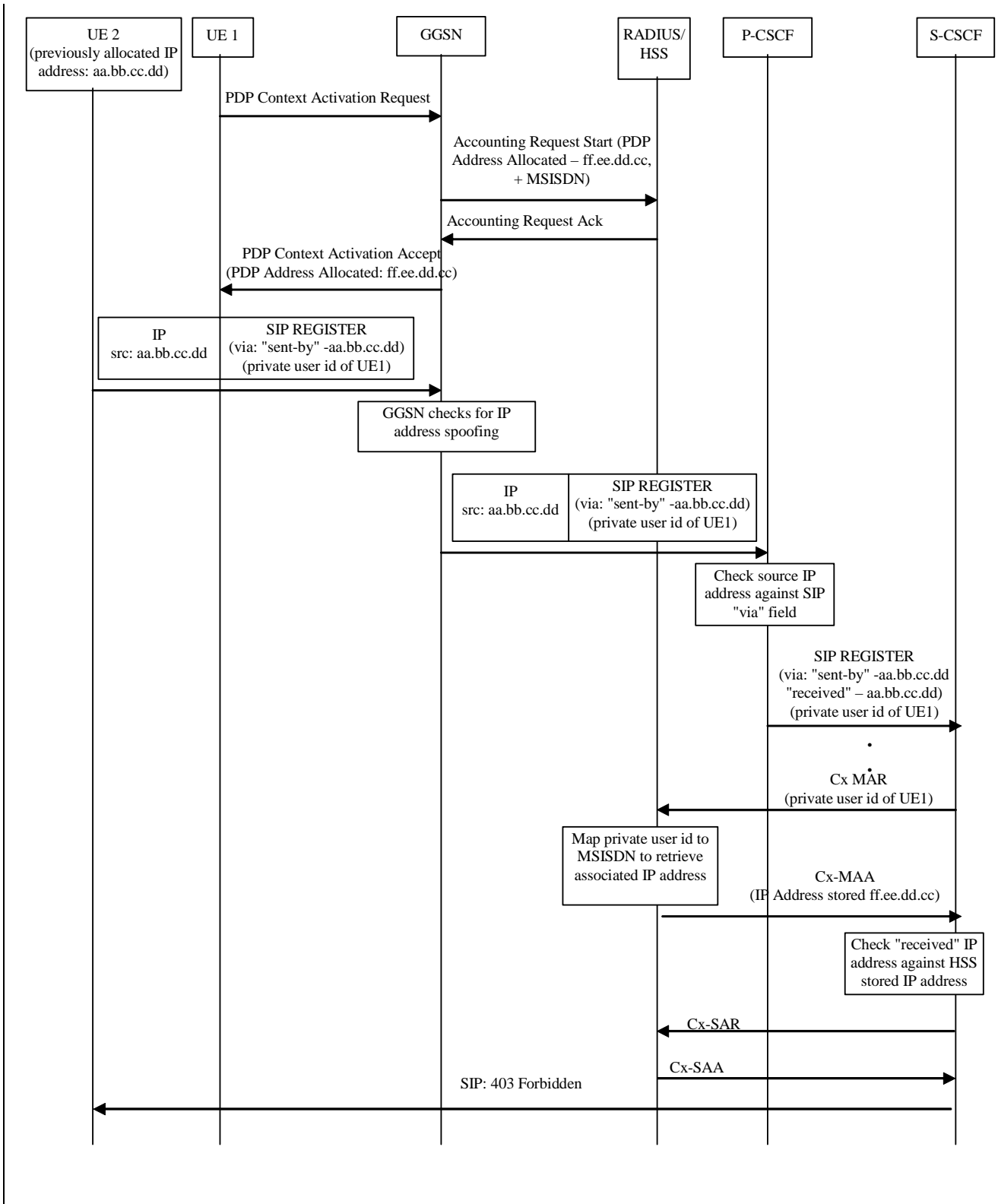


Figure 1: Message sequence for early IMS security showing a successful registration

### 7.2.5.2 Unsuccessful registration

Figure 2 below gives an example message flow for the unsuccessful attempt of an attacker trying to spoof the IMS identity of a valid IMS user.

Again, the “received” parameter is only present between P-CSCF to S-CSCF under the conditions given in clause 7.2.3.1.



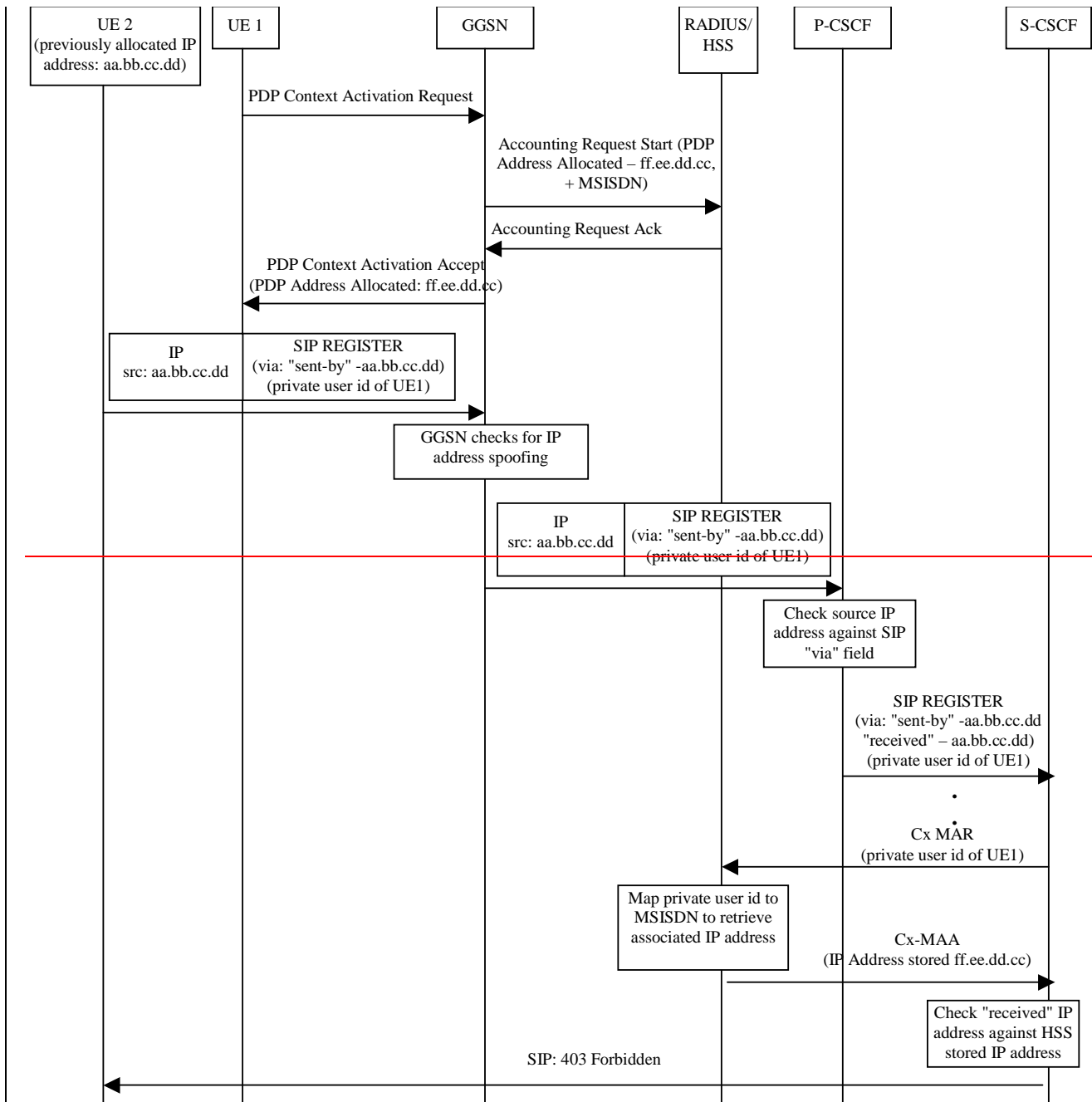
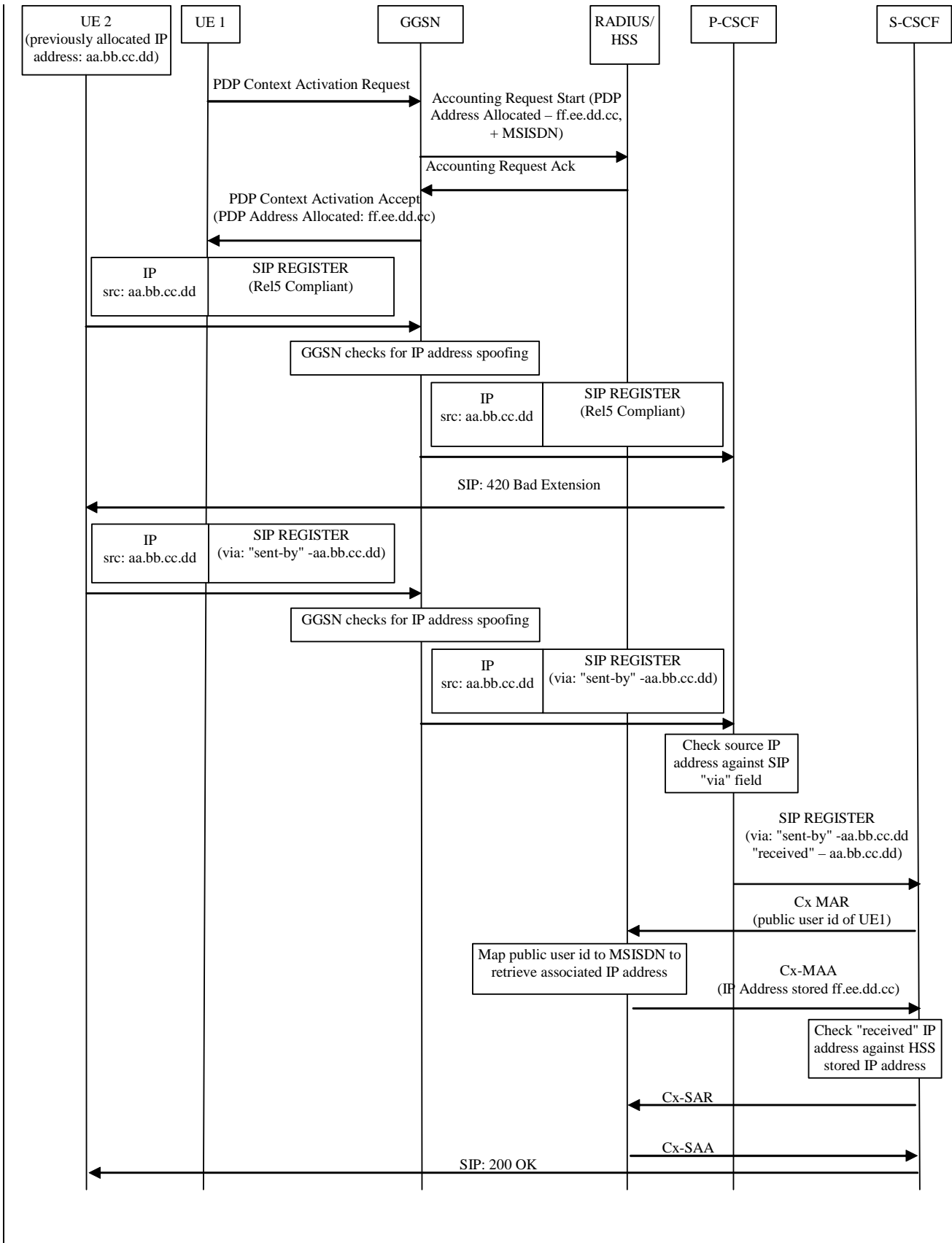


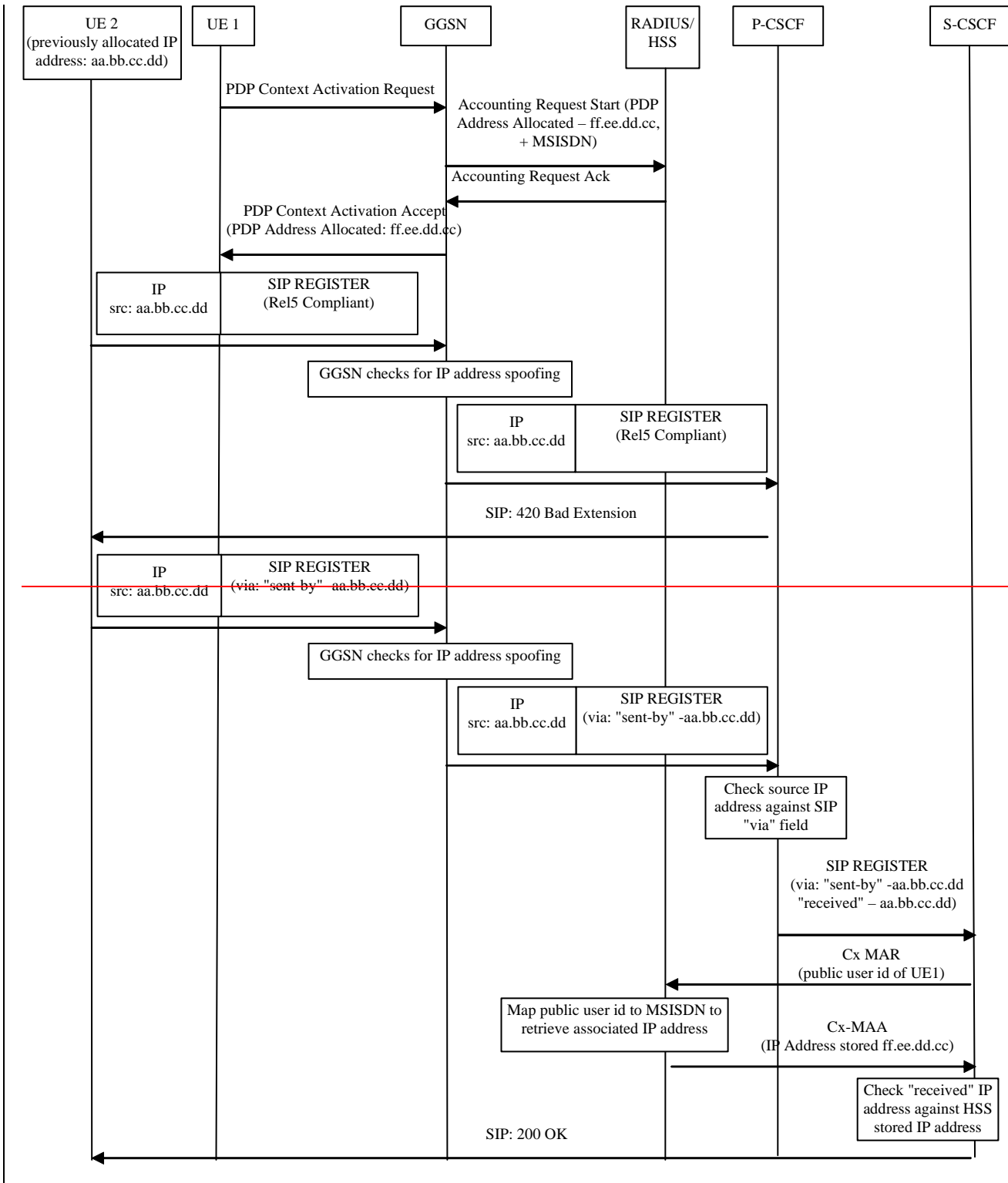
Figure 2: Message sequence for early IMS security showing an unsuccessful identity theft

### 7.2.5.3 Successful registration for a selected interworking case

Figure 3 below describes the message flow for successful registration to the IMS in the case that the UE supports both fully compliant and early IMS access security and the network supports early IMS only. This case is denoted as case 3 in clause 7.2.4.

Note, that the “received” parameter is only sent from P-CSCF to S-CSCF under the conditions given in clause 7.2.3.1.





**Figure 3: Message sequence for early IMS security showing interworking case where UE supports both fully compliant and early IMS access security and network supports early IMS security only**



