**3GPP TSG-CT WG1 Meeting #132-eC1-215601**

**E-meeting, 11-15 October 2021**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **24.229** | **CR** | **6533** | **rev** | **1** | **Current version:** | **17.4.0** |  |
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| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network | **X** |

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| ***Title:*** | 24.229 Priority-Verstat for MPS | | | | | | | | | |
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| ***Source to WG:*** | Peraton Labs, CISA ECD, Verizon, T-Mobile USA | | | | | | | | | |
| ***Source to TSG:*** | CT1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | TEI17\_SAPES | | | | |  | ***Date:*** | | | 2021-09-28 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-17 |
|  | *Use one of the following categories:* ***F*** *(correction)* ***A*** *(mirror corresponding to a change in an earlier release)* ***B*** *(addition of feature),* ***C*** *(functional modification of feature)* ***D*** *(editorial modification)*  Detailed explanations of the above categories can be found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | | | | | | | | *Use one of the following releases: Rel-8 (Release 8) Rel-9 (Release 9) Rel-10 (Release 10) Rel-11 (Release 11) … Rel-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
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| ***Reason for change:*** | | |  | | --- | | Participants in an MPS call cannot be allowed to know that the call is an MPS priority call. The Priority-Verstat header field can give the end user information about the MPS nature of the call. Depending on local policy, the P-CSCF may need to remove the Priority-Verstat header field from messages destined for the UE. | | | | | | | | | |
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| ***Summary of change:*** | | First change:  For an INVITE request to a terminating UE, add text to explain that the P-CSCF will need to determine whether to remove the Priority-Verstat header field.    Second change:  For a reINVITE or UPDATE request to the terminating UE, add text to explain that the P-CSCF will need to determine whether to remove the Priority-Verstat header field. | | | | | | | | |
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| ***Consequences if not approved:*** | | Providing the Priority-Verstat header field to the UE could be a security risk. | | | | | | | | |
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| ***Clauses affected:*** | | 5.2.6.4.3, 5.2.9.2 | | | | | | | | |
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|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  | **X** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

\*\*\*\*\* First change \*\*\*\*\*

##### 5.2.6.4.3 Initial request for a dialog

When the P-CSCF receives, destined for the UE, an initial request for a dialog, prior to forwarding the request, the P-CSCF shall:

1) if an indication has been received from the PCRF that the signalling bearer to the UE is lost, and has not recovered, reject the request by sending 500 (Server Internal Error) response;

NOTE 1: The signalling bearer can be considered as recovered by the P-CSCF when the registration timer expires in P-CSCF and the user is de-registered from the IM CN subsystem, a new REGISTER request from the UE is received providing an indication to the P-CSCF that the signalling bearer to that user has become available or a P-CSCF implementation dependent function which discovers that the signalling bearer is available to the UE.

NOTE 2: The Retry-After header field value is set based on operator policy.

2) convert the list of Record-Route header field values into a list of Route header field values and save this list of Route header fields;

3) if the request is an INVITE request, save a copy of the Contact, CSeq and Record-Route header field values received in the request such that the P-CSCF is able to release the session if needed;

4) if a security association or TLS session exists, when adding its own SIP URI to the top of the list of Record-Route header fields and save the list, build the P-CSCF SIP URI in a format that contains the protected server port number of the security association or TLS session established from the UE to the P-CSCF and either:

a) the P-CSCF FQDN that resolves to the IP address of the security association or TLS session established from the UE to the P-CSCF; or

b) the P-CSCF IP address of the security association or TLS session established from the UE to the P-CSCF;

5) if SIP digest without TLS, NASS-IMS bundled authentication or GPRS-IMS-Bundled authentication is used, when adding its own SIP URI to the top of the list of Record-Route header fields and saving the list, build the P-CSCF URI in a format that contains an unprotected server port number where the P-CSCF expects subsequent requests from the UE;

6) if a security association or TLS session exists, when adding its own address to the top of the received list of Via header fields and save the list, build the P-CSCF Via header field entry in a format that contains the protected server port number of the security association or TLS session established from the UE to the P-CSCF and either:

a) the P-CSCF FQDN that resolves to the IP address of the security association or TLS session established from the UE to the P-CSCF; or

b) the P-CSCF IP address of the security association or TLS session established from the UE to the P-CSCF;

NOTE 3: The P-CSCF associates two ports, a protected client port and a protected server port, with each pair of security associations or TLS session. For details of the usage of the two ports see 3GPP TS 33.203 [19].

7) if SIP digest without TLS, NASS-IMS bundled authentication or GPRS-IMS-Bundled athentication is used, when adding its own address to the top of the received list of Via header fields and saving the list, build the P-CSCF Via header field entry in a format that contains an unprotected server port number where the P-CSCF expects responses to the current request from the UE;

7A) if the recipient of the request is understood from information saved during registration or from configuration to always send and receive private network traffic from this source, remove the P-Private-Network-Indication header field containing the domain name associated with that saved information;

8) store the values received in the P-Charging-Function-Addresses header field;

9) store the "icid-value" header field parameter and if present, the "orig-ioi" header field parameter received in the P-Charging-Vector header field;

10) if the request contains an "fe-identifier" header field parameter, based on local policy, store the content of the "fe-identifier" header field parameter of the P-Charging-Vector header field;

11) save a copy of the P-Called-Party-ID header field; and

12) determine, based on local policy, whether to remove the Priority-Verstat header field, if present;

before forwarding the request to the UE either in accordance with the procedures of RFC 3261 [26] or as specified in RFC 5626 [92].

If no security association exists between the P-CSCF and the UE performing the functions of an external attached network operating in static mode, the P-CSCF shall initiate a TLS session towards the UE performing the functions of an external attached network operating in static mode before sending the initial request in accordance with 3GPP TS 33.310 [19D].

NOTE 4: The P-CSCF can identify that a call is directed to a UE performing the functions of an external attached network operating in static mode by evaluating the Route header field, the Request URI or other means.

Once the TLS session is set up (using the certificates) the P-CSCF shall send the initial request for dialog over the secure connection to the UE performing the functions of an external attached network operating in static mode.

\*\*\*\*\* Second change \*\*\*\*\*

#### 5.2.9.2 UE-terminating case

The P-CSCF shall respond to all reINVITE requests with a 100 (Trying) provisional response.

For a reINVITE request or UPDATE request destined towards the UE within the same dialog, when the P-CSCF sends 200 (OK) response (to the INVITE request or UPDATE request) towards the S-CSCF, the P-CSCF shall include the updated access-network-charging-info parameter in the P-Charging-Vector header field. See subclause 5.2.7.4 for further information on the access network charging information.

For a reINVITE request or UPDATE request destined towards the UE, the P-CSCF shall determine, based on local policy, whether to remove the Priority-Verstat header field, if present.

If priority is supported, the P-CSCF shall adjust the priority treatment of transactions or dialogs according to the most recently received authorized Resource-Priority header field value and set the backwards indication accordingly.