3GPP TSG SA WG5 Meeting 137-e TDoc S5-213354

electronic meeting, online, 10 - 19 May 2021

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **32.275** | **CR** | **0081** | **rev** | **1** | **Current version:** | **17.1.0** |  |
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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:*** | Adding converged charging flows | | | | | | | | | |
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| ***Source to WG:*** | Ericsson LM | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5GSIMSCH | | | | |  | ***Date:*** | | | 2021-05-17 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***Release:*** | | | Rel-16 |
|  | *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:*** | | Flows for converged charging are missing. | | | | | | | | |
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| ***Summary of change:*** | | Referring to the online offline flows with the difference noted. | | | | | | | | |
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| ***Consequences if not approved:*** | | The flows for converged charging wouldn’t be described. | | | | | | | | |
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| ***Clauses affected:*** | | 5.4, 5.4.2.1, 5.4.2.2, 5.4.2.3, 5.4.2.4, 5.4.2.5, 5.4.2.x (new), 5.4.2.y (new), 5.4.2.z (new) | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | | Revision of S5-213354 | | | | | | | | |

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| **First change** |

## 5.4 MMTel converged charging scenarios

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| **Second change** |

#### 5.4.2.1 Introduction

The flows described in the present document specify the converged charging service with IMS NF (e.g. IMS AS) as the NF Consumer for different charging scenarios. The messages associated with these charging scenarios are shown primarily for information and to illustrate the charging triggers.   
They are not intended to be exhaustive of all the IMS message flows described in TS 24.228 [221].

Although each MMTel supplementary service is described by separated flows illustrating the dedicated trigger(s) for each MMTel supplementary service, the service may be combined with other MMTel supplementary services or IMS information.

The circumstances on which PEC, ECUR or SCUR are applied, depend on the MMTel supplementary service and/or operator's policy

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| **Third change** |

#### 5.4.2.2 Void

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| **Fourth change** |

#### 5.4.2.3 Void

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| **Fifth change** |

#### 5.4.2.4 Void

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| **Sixth change** |

#### 5.4.2.5 Void

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| **Seventh change** |

#### 5.4.2.x MMTEL supplementary services – PEC

The message flows clause 5.2.2.1. except for figures 5.2.2.1.7.2.1, 5.2.2.1.9.1.1, and 5.2.2.1.9.2.1, are applicable with the following changes:

- CDF replaced with CHF

- AS CDR replaced with CHF CDR

- Charging Data Request [Start] replaced with Charging Data Request [Initial]

- Charging Data Request [Interim] replaced with Charging Data Request [Update]

- Charging Data Request [Stop] replaced with Charging Data Request [Termination]

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| **Eighth change** |

#### 5.4.2.y MMTEL supplementary services – ECUR

The message flow in figure 5.3.2.1.4.1.1 is applicable with the following changes:

- OCS replaced with CHF

- Addition of creation, updating, and closing of CHF CDR in CHF (OCS)

- Reserve Units Request [Initial] replaced with Charging Data Request [Initial].

- Reserve Units Request [Update] replaced with Charging Data Request [Update]

- Reserve Units Request [Termination] replaced with Charging Data Request [Termination]

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| **Nineth change** |

#### 5.4.2.z MMTEL supplementary services – SCUR

The message flows clause 5.2.2.1. except the following figures 5.2.2.1.6.1.1, 5.2.2.1.6.2.1, 5.2.2.1.8.1, 5.2.2.1.10.1, 5.2.2.1.12.1, and 5.2.2.1.13.1, are applicable with the following changes:

- CDF replaced with CHF

- AS CDR replaced with CHF CDR

- Charging Data Request [Start] replaced with Charging Data Request [Initial]

- Charging Data Request [Interim] replaced with Charging Data Request [Update]

- Charging Data Request [Stop] replaced with Charging Data Request [Termination]

The message flows clause 5.3.2.1, except the figure 5.3.2.1.4.1.1, are applicable with the following changes:

- OCS replaced with CHF

- Addition of creation, updating, and closing of CHF CDR in CHF (OCS)

- Reserve Units Request [Initial] replaced with Charging Data Request [Initial].

- Reserve Units Request [Update] replaced with Charging Data Request [Update]

- Reserve Units Request [Termination] replaced with Charging Data Request [Termination]

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| **End of changes** |