**3GPP TSG-CT WG1 Meeting #134-eC1-221621**

**E-Meeting, 17th – 25th February 2022**

|  |
| --- |
| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **24.368** | **CR** | 0062 | **rev** | **1** | **Current version:** | 17.1.0 |  |
|  |
| *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 | **X** | Radio Access Network |  | Core Network |  |

|  |
| --- |
|  |
| ***Title:***  | Re-activate N1 mode capability upon re-attach procedure – Alt. 4 |
|  |  |
| ***Source to WG:*** | NTT DOCOMO, Vodafone |
| ***Source to TSG:*** | C1 |
|  |  |
| ***Work item code:*** | 5GProtoc17 |  | ***Date:*** | 2022-02-22 |
|  |  |  |  |  |
| ***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 canbe 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)* |
|  |  |
| ***Reason for change:*** | As discussed during CT1#131-e (see C1-214662), if the UE receives registration reject message with 5GMM cause #27, then there is a concern that the UE cannot camp on a 5GS cell for long time even after the user has changed his/her subscription and thereby allowed to access to the cell.It is proposed that the UE re-enables its N1 mode when it receives perticular signalling in EPS, i.e. if the subscription status to 5G changes, the NW triggers re-attach procedure. Therefore, it is proposed that the UE re-enables its N1 mode capability when it receives DETACH REQUEST message with “re-attach required”.During CT1#131-e, we have proposed a solution, i.e. the UE re-enables its N1 mode capability when the UE performs re-attach procedure (which can be trigerred by the NW). During CT1#133-e, we have proposed 3 alternatives below:Alt-1: NW-based solution – the 5GC sends new IE to the UEAlt-2: NW-based solution – the EPC sends new bit to the UEAlt-3: UE-based solution - the UE re-enables N1 mode upon re-attach based on implementationHowever, companies raised concerns that the HPLMN may not be able to control the UE behavior. Therefore, it is proposed to specify the NAS MO which is used to control the UE behavior (Alt-4). |
|  |  |
| ***Summary of change:*** | The UE enables its disabled N1 mode capability when performs re-attach procedure in **EPS**, if the UE has disabled its N1 mode capability and if the UE is configured with Re\_enable\_N1\_when\_reattach. For that purpose, a new NAS MO configuration is specified. |
|  |  |
| ***Consequences if not approved:*** | The UE cannot access to 5GCN for long time even though it is allowed by its subscription. |
|  |  |
| ***Clauses affected:*** | 4.1, 5.10xx(new), Annex A |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** | **X** |  |  Other core specifications  | TS 24.301 CR 3639  |
| ***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 \* \* \* \*

# 4 NAS configuration MO

The NAS configuration MO is used to manage configuration parameters related to NAS functionality for a UE supporting provisioning of such information. The presence and format of the non-access stratum configuration file on the USIM is specified in 3GPP TS 31.102 [6].

The MO identifier is: urn:oma:mo:ext-3gpp-nas-config:1.0.

The OMA DM Access Control List (ACL) property mechanism (see OMA-ERELD-DM-V1\_2 [2]) may be used to grant or deny access rights to OMA DM servers in order to modify nodes and leaf objects of the NAS configuration MO.

The following nodes and leaf objects are possible in the NAS configuration MO as described in figure 4-1:



Figure 4-1: The NAS configuration Management Object (1 of 3)



Figure 4-2: The NAS configuration Management Object (2 of 3)



Figure 4-3: The NAS configuration Management Object (3 of 3)

\* \* \* Next Change \* \* \* \*

## 5.10xx /*<X>*/ Re\_enable\_N1\_upon\_reattach

This leaf indicates whether re-enabling N1 mode when performing re-attach in EPS is enabled or not. If re-enabling N1 mode when performing re-attach in EPS is enabled, the UE shall enable N1 mode capability for 3GPP access if it was previously disabled when receiving the DETACH REQUEST message and the detach type indicates "re-attach required" (see TS 24.301 [5]).

- Occurrence: ZeroOrOne

- Format: bool

- Access Types: Get, Replace

- Values: 0, 1

0 - Indicates that re-enabling N1 mode capability when performing re-attach is disabled, see TS 24.301 [5]

1 - Indicates that re-enabling N1 mode when performing re-attach is enabled, see TS 24.301 [5]

The default value 0 applies if this leaf is not provisioned.

\* \* \* Next Change \* \* \* \*

Annex A (informative):
NAS configuration MO DDF

This DDF is the standardized minimal set. A vendor can define its own DDF for the complete device. This DDF can include more features than this minimal standardized version.

<?xml version="1.0" encoding="UTF-8"?>

<!DOCTYPE MgmtTree PUBLIC "-//OMA//DTD-DM-DDF 1.2//EN"

"http://www.openmobilealliance.org/tech/DTD/dm\_ddf-v1\_2.dtd">

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 <Mod>--The device model--</Mod>

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 <DDFName/>

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 </DFFormat>

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 <DFTitle>List of RLOS allowed MCCs.</DFTitle>

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 <DFTitle> List of RLOS allowed MCCs.</DFTitle>

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 </DFProperties>

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 <NodeName>MCC</NodeName>

 <DFProperties>

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 </AccessType>

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 <chr/>

 </DFFormat>

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 </Occurrence>

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 </DFType>

 </DFProperties>

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 <Node>

 <NodeName>SNPN\_Configuration</NodeName>

 <DFProperties>

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 <DFTitle>Configuration parameters regarding a UE operating in SNPN access operation mode.</DFTitle>

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 </DFType>

 </DFProperties>

 <Node>

 <NodeName></NodeName>

 <DFProperties>

 <AccessType>

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 </DFFormat>

 <Occurrence>

 <OneOrMore/>

 </Occurrence>

 <Scope>

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 </Scope>

 <DFTitle>List of {SNPN identifier, configuration parameters regarding 3GPP PS data off for a UE in the SNPN identified by the SNPN identifier, configured UE retry wait time value for a UE in the SNPN identified by the SNPN identifier}.</DFTitle>

 <DFType>

 <DDFName/>

 </DFType>

 </DFProperties>

 <Node>

 <NodeName>SNPN\_identifier</NodeName>

 <DFProperties>

 <AccessType>

 <Get/>

 <Replace/>

 </AccessType>

 <DFFormat>

 <chr/>

 </DFFormat>

 <Occurrence>

 <One/>

 </Occurrence>

 <DFTitle>SNPN identifier for which the 3GPP\_PS\_data\_off leaf or SM\_RetryWaitTime leaf is applicable.</DFTitle>

 <DFType>

 <MIME>text/plain</MIME>

 </DFType>

 </DFProperties>

 </Node>

 <NodeName>3GPP\_PS\_data\_off</NodeName>

 <DFProperties>

 <AccessType>

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 </AccessType>

 <DFFormat>

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 </DFFormat>

 <Occurrence>

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 <Scope>

 <Dynamic/>

 </Scope>

 <DFTitle>Configuration parameters regarding 3GPP PS data off for a UE in the SNPN identified by the SNPN\_identifier leaf.</DFTitle>

 <DFType>

 <DDFName/>

 </DFType>

 </DFProperties>

 <Node>

 <NodeName>Exempted\_service\_list</NodeName>

 <DFProperties>

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 <Occurrence>

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 <Scope>

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 <DFTitle>List of services which are exempted of 3GPP PS data off for a UE in the SNPN identified by the SNPN\_identifier leaf.</DFTitle>

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 </DFProperties>

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 <NodeName>Device\_management\_over\_PS</NodeName>

 <DFProperties>

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 <Occurrence>

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 </Occurrence>

 <Scope>

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 </Scope>

 <DFTitle>Device management over PS which is a 3GPP PS data off exempt service for a UE in the SNPN identified by the SNPN\_identifier leaf.</DFTitle>

 <DFType>

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 <Node>

 <NodeName>Bearer\_independent\_protocol</NodeName>

 <DFProperties>

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 </DFFormat>

 <Occurrence>

 <ZeroOrOne/>

 </Occurrence>

 <Scope>

 <Dynamic/>

 </Scope>

 <DFTitle>Bearer\_independent\_protocol which is a 3GPP PS data off exempt service for a UE in the SNPN identified by the SNPN\_identifier leaf.</DFTitle>

 <DFType>

 <MIME>text/plain</MIME>

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 </Node>

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 <Node>

 <NodeName>SM\_RetryWaitTime</NodeName>

 <DFProperties>

 <AccessType>

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 </DFFormat>

 <Occurrence>

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 </Occurrence>

 <DFTitle> SM\_RetryWaitTime for a UE in the SNPN identified by the SNPN\_identifier leaf</DFTitle>

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 <NodeName>Timer\_T3245\_Behaviour</NodeName>

 <DFProperties>

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 <DFTitle> Timer\_T3245\_Behaviour for a UE in the SNPN identified by the SNPN\_identifier leaf</DFTitle>

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 </DFFormat>

 <Occurrence>

 <ZeroOrOne/>

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 <DFTitle> NoEUTRADisablingIn5GS.</DFTitle>

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 <NodeName>Re\_enable\_N1\_upon\_reattach</NodeName>

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 </AccessType>

 <DFFormat>

 <bool/>

 </DFFormat>

 <Occurrence>

 <ZeroOrOne/>

 </Occurrence>

 <DFTitle> Re enable N1 upon reattach.</DFTitle>

 <DFType>

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 </DFProperties>

 </Node>

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 <DFProperties>

 <AccessType>

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 </AccessType>

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 <Occurrence>

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 <DFTitle>A collection of all extension objects.</DFTitle>

 <DFType>

 <DDFName/>

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</MgmtTree>