**3GPP TSG-CT WG1 Meeting #134-eC1-221682**

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

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **368** | **CR** | 0063 | **rev** | 1 | **Current version:** |  |  |
|  | | | | | | | | |
| *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)*.* | | | | | | | | |
|  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network |  | Core Network |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | MO local configuration for NSWO | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** |  | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NSWO\_5G | | | | |  | ***Date:*** | | |  |
|  |  | | | |  | |  | | |  |
| ***Category:*** | B |  | | | | | ***Release:*** | | |  |
|  | *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)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Annex S of TS 33.501 specifies the following requirements on local configuration for the support of NSWO in 5GS that need to be implemented in stage-3 specs, namely  " An HPLMN that supports 5G NWSO and wants the UE to use 5G NSWO shall configure the UE to use 5G NSWO. This configuration shall be either on the USIM or ME, with configuration on the USIM taking precedence over the ME." | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | 1) Add MO for enabling/disabling 5G NSWO  2) Specify the precedence of ME and UICC configuration | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | NSWO authentication procedures are not supported in 5GS | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 2, 3.2, 4, new 5.10x, Annex A | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

1st change

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2] OMA-ERELD-DM-V1\_2: "Enabler Release Definition for OMA Device Management".

[3] 3GPP TS 23.122: "Non-Access-Stratum (NAS) functions related to Mobile Station (MS) in idle mode".

[4] 3GPP TS 24.008: "Mobile radio interface Layer 3 specification; Core network protocols; Stage 3".

[5] 3GPP TS 24.301: "Non-Access-Stratum (NAS) protocol for Evolved Packet System (EPS); Stage 3".

[5A] 3GPP TS 23.401: "GPRS enhancements for E-UTRAN access".

[6] 3GPP TS 31.102: "Characteristics of the USIM Application".

[7] 3GPP TS 31.111: "Universal Subscriber Identity Module (USIM) Application Toolkit (USAT)".

[8] 3GPP TS 36.101: "Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception".

[9] 3GPP TS 23.032: "Universal Geographical Area Description (GAD)".

[10] 3GPP TS 36.304: "Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) procedures in idle mode".

[11] 3GPP TS 24.501: "Non-Access-Stratum (NAS) protocol for 5G System (5GS); Stage 3".

[12] 3GPP TS 23.221: "Architectural requirements".

[13] 3GPP TS 23.003: "Numbering, addressing and identification".

[14] 3GPP TS 36.331: "Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC) protocol specification".

[15] 3GPP TS 38.331: "NR; Radio Resource Control (RRC); Protocol Specification".

[16] 3GPP TS 23.501: "System Architecture for the 5G System; Stage 2".

[x] 3GPP TS 24.502: "Access to the 3GPP 5G System (5GS) via non-3GPP access networks; Stage 3".

2nd change

## 3.2 Abbreviations

For the purposes of the present document, the abbreviations given in 3GPP TR 21.905 [1] and the following apply. An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in 3GPP TR 21.905 [1].

5GS 5G System

ACL Access Control List

DDF Device Description Framework

DM Device Management

EARFCN E-UTRA Absolute Radio Frequency Channel Number

MO Management Object

MTC Machine-Type Communications

NAS Non-Access Stratum

NB-IoT Narrowband IoT

NID Network Identifier

NSWO Non-Seamless WLAN Offload

OMA Open Mobile Alliance

RLOS Restricted Local Operator Services

SNPN Stand-alone Non-Public Network

3rd 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)

4th change

## 5.10x *<X>*/NSWOIn5GS

The NSWOIn5GS leaf indicates whether NSWO in 5GS is disabled or enabled. If NSWO in 5GS is enabled, the UE shall always use NSWO.

- Occurrence: ZeroOrOne

- Format: bool

- Access Types: Get, Replace

- Values: 0, 1

0 Indicates that NSWO in 5GS is disabled, see 3GPP TS 24.502 [x]

1 Indicates that NSWO in 5GS is enabled, see 3GPP TS 24.502 [x]

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

If the UE is configured with both the NSWOIn5GS and the corresponding NSWO indication described in 3GPP TS 31.102 [6], then the indication of the USIM shall take precedence.

5th 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.

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

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<DFTitle>Priority of the RLOS preferred PLMN.</DFTitle>

<DFType>

<DDFName/>

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</DFProperties>

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<Node>

<NodeName>MfgAssignUERadioCapId</NodeName>

<DFProperties>

<AccessType>

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</AccessType>

<DFFormat>

<node/>

</DFFormat>

<Occurrence>

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</Occurrence>

<Scope>

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</Scope>

<DFTitle>List of manufacturer-assigned UE radio capability IDs.</DFTitle>

<DFType>

<DDFName/>

</DFType>

</DFProperties>

<Node>

<NodeName>Vendor ID</NodeName>

<DFProperties>

<AccessType>

<Get/>

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</AccessType>

<DFFormat>

<chr/>

</DFFormat>

<Occurrence>

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</Occurrence>

<DFTitle>Vendor ID.</DFTitle>

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<Occurrence>

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</Occurrence>

<Scope>

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</Scope>

<DFTitle> List of manufacturer-assigned UE radio capability IDs and associated radio configurations.</DFTitle>

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<DDFName/>

</DFType>

</DFProperties>

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<NodeName>RCI</NodeName>

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<DFTitle>Radio Configuration Identifier.</DFTitle>

<DFType>

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</DFType>

</DFProperties>

</Node>

<Node>

<NodeName>UERadioConfigLTE</NodeName>

<DFProperties>

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</AccessType>

<DFFormat>

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</DFFormat>

<Occurrence>

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</Occurrence>

<DFTitle>UE radio configuration asosciated with the RCI encoded as specified in TS 36.331.</DFTitle>

<DFType>

<DDFName/>

</DFType>

</DFProperties>

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<Node>

<NodeName>UERadioConfigNR</NodeName>

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</DFFormat>

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</Occurrence>

<DFTitle>UE radio configuration asosciated with the RCI encoded as specified in TS 38.331.</DFTitle>

<DFType>

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</DFProperties>

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<Node>

<NodeName>RLOSAllowedMCCList</NodeName>

<DFProperties>

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<node/>

</DFFormat>

<Occurrence>

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</Scope>

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

<DFType>

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

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<chr/>

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</Occurrence>

<DFTitle>MCC value of a RLOS allowed MCC.</DFTitle>

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</DFType>

</DFProperties>

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<Node>

<NodeName>SNPN\_Configuration</NodeName>

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<Occurrence>

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</Scope>

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

<DFType>

<DDFName/>

</DFType>

</DFProperties>

<Node>

<NodeName></NodeName>

<DFProperties>

<AccessType>

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</DFFormat>

<Occurrence>

<OneOrMore/>

</Occurrence>

<Scope>

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<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>

<Get/>

<Replace/>

</AccessType>

<DFFormat>

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</DFFormat>

<Occurrence>

<ZeroOrOne/>

</Occurrence>

<Scope>

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</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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<DFFormat>

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<Occurrence>

<One/>

</Occurrence>

<Scope>

<Dynamic/>

</Scope>

<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>

<DFType>

<DDFName/>

</DFType>

</DFProperties>

<Node>

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

<DFProperties>

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</DFFormat>

<Occurrence>

<One/>

</Occurrence>

<Scope>

<Dynamic/>

</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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</DFType>

</DFProperties>

</Node>

<Node>

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

<DFProperties>

<AccessType>

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<Replace/>

</AccessType>

<DFFormat>

<bool/>

</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>

</Node>

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<Node>

<NodeName>SM\_RetryWaitTime</NodeName>

<DFProperties>

<AccessType>

<Get/>

<Replace/>

</AccessType>

<DFFormat>

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</DFFormat>

<Occurrence>

<ZeroOrOne/>

</Occurrence>

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

<DFType>

<MIME>text/plain</MIME>

</DFType>

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<Node>

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

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</DFFormat>

<Occurrence>

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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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<Node>

<NodeName>NoEUTRADisablingIn5GS</NodeName>

<DFProperties>

<AccessType>

<Get/>

<Replace/>

</AccessType>

<DFFormat>

<bool/>

</DFFormat>

<Occurrence>

<ZeroOrOne/>

</Occurrence>

<DFTitle> NoEUTRADisablingIn5GS.</DFTitle>

<DFType>

<MIME>text/plain</MIME>

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</Node>

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<DFFormat>

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</DFFormat>

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<DFProperties>

<AccessType>

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</AccessType>

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<Occurrence>

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<DDFName/>

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</MgmtTree>

End of changes