**3GPP TSG-SA3 Meeting #99e *S3-201236-r2***

**e-meeting, 11 – 15 May 2020**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **33.819** | **CR** | **0001** | **rev** | **1** | **Current version:** | **16.0.0** |  |
|  | | | | | | | | |
| *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 | **x** | ME | **x** | Radio Access Network | **x** | Core Network | **x** |

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|  | | | | | | | | | | |
| ***Title:*** | Introduction to Vertical LAN study | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Nokia, Nokia Shanghai Bell, Interdigital | | | | | | | | | |
| ***Source to TSG:*** | S3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | FS\_VERTICAL\_LAN\_SEC | | | | |  | ***Date:*** | | | 15.5.2020 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | D |  | | | | | ***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-12 (Release 12)* *Rel-13 (Release 13) Rel-14 (Release 14) Rel-15 (Release 15) Rel-16 (Release 16)* | |
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| ***Reason for change:*** | | Resolving ed note, mising introduction to study | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Adding introduction to the subject of the study | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Editor’s note not resolved | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | Introduction | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | | S3-200375 | | | | | | | | |

\*\*\*\*\*\*\*\* START OF CHANGES

# Introduction

The present study covers 3 topics: 5GS support for Non-Public Network (NPN), 5G LAN-type services and Time Sensitive Communication.

An NPN is a 5GS deployed for non-public use, for details consult TS 22.261 [1]. As described in TS 23.501 [7], an NPN may be deployed as a Stand-alone Non-Public Network (SNPN), i.e. a network operated by an NPN operator and not relying on network functions provided by a PLMN, or a Public Network Integrated NPN, i.e. a non-public network deployed with the support of a PLMN.

5G LAN-type services are services that allow a set of UEs (5G LAN Group) to use private communication, i.e. providing services with similar functionalities to Local Area Networks (LANs) and VPN’s but improved with 5G capabilities.

Time Sensitive Communication (TSC) is a communication service that allows deterministic communication and/or isochronous communication with high reliability and availability by integrating transparently the 5G System as a bridge in an IEEE TSN network.

\*\*\*\*\*\*\*\* END OF CHANGES