3GPP **5G-ACIA-LS-2020-WI039**
(CC: ETG, IEC TC65, IEEE TSN, oneM2M, OPC Foundation, PI, TM Forum)

Title:	**5G capabilities exposure for factories of the future**
Response to:	**-**
Release:	
Work Item:	**5G-ACIA WI 039**
Source:	5G-ACIA (5G Alliance for Connected Industries and Automation)
To:	3GPP TSG SA
Cc:	3GPP SA WG1, 3GPP SA WG2, 3GPP SA WG3, 3GPP SA WG5, 3GPP SA WG6, 3GPP CT WG3, IEC TC 65, oneM2M TP, OPC Foundation, PI, IEEE TSN, TM Forum, ETG

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Attachments: **See linked white paper www.5g-acia.org/publications**

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1. Overall Description:

Over the last two years, 5G-ACIA has collected and analysed many industrial use cases. These use cases – as well as inferred communication service characteristics – have been documented by 3GPP in TS 22.104 and TS 22.261. 5G-ACIA has further refined and analysed operational use cases that are needed by factory operators to manage and maintain 5G-enabled devices and 5G Non-Public Networks (NPN) in a simple and efficient manner.

5G-ACIA believes the service exposure requirements derived from the aforementioned operational use cases are valuable input for upcoming contributions addressing ongoing work in 3GPP, such as the study items documented in TR 23.700 and TR 23.745. These requirements have been published in the 5G-ACIA white paper *Exposure of 5G capabilities for connected industries and automation applications* (**www.5g-acia.org/publications**), which is also attached to this LS**.**

This white paper focuses on operational use cases pertaining to device management, for example use cases that enable factory operators to manage the life cycle of devices, and e.g. to change and monitor the devices' connectivity. In order to execute these operational use cases efficiently, the industrial systems require a set of well standardised and published APIs that hide a great deal of 3GPP complexity and yet provide the needed flexibility to the factory operator.
These capabilities are needed by factories of the future and expected from 5G NPN and 5G-enabled devices. 5G-ACIA would like to highlight the importance of these refined requirements for industrial operations and would appreciate it very much, if 3GPP considered the provided information to ongoing and upcoming specification work.
5G-ACIA would be eager to receive 3GPP's feedback on these new exposure interface requirements and related Stage-2 and Stage-3 work.

2. Actions:

TO 3GPP TSG SA

ACTION: Consider the content of the white paper and advice any related 3GPP WG on needed study items or actions and provide feedback to 5G-ACIA on planned activities.

3. Date of Next 5G-ACIA e-Plenary Meeting

The next 5G-ACIA e-plenaries are scheduled for 15th-17th of September and 4th -6th of November 2020.

5G-ACIA_Exposure_of_5G_Capabilities_Download.pdf