**3GPP TSG-SA3 Meeting #115 *draft\_S3-240839-r1***

Athens, Greece, 26th February - 1st March 2024

**Title: Reply LS to GSMA on re Definition of Term ‘Network Product Class’**

**Response to: (S3-240229) LS to 3GPP SA3 re Definition of Term ‘Network Product Class’**

**Release: Rel-18**

**Work Item: 5G\_SCAS\_Ph3**

**Source: Huawei to be SA3**

**To: GSMA’s NESAS Group**

**Cc:**

**Contact person: He Li**

 **LIHE2@huawei.com**

**Send any reply LS to: 3GPP Liaisons Coordinator,** **mailto:3GPPLiaison@etsi.org**

**Attachments:** None

# 1 Overall description

Thanks for the questions. Please find the answer in below.

**Question1:** What is the purpose of the term Network Product Class, what does it describe and why was it introduced by SA3?

**Answer1:** In 3GPP, network function implies a cluster of features that is defined by 3GPP, which is totally logical. However, when evaluate and test are performed, there should be a real target, and it should be measurable, comparable, and follow a common standardised baseline. So that implementation is network product. However, when network product is mentioned, it means a specific entity, so product class is introduced to indicate it represents a type of entities which implement same features where 3GPP defines.

The description of Network Product Class is captured in TR 33.926, and more details can be found in clause 4.1 of TR 33.926, as “A 3GPP generic network product class defines a set of functions that are implemented on that product, which includes, but not limited to minimum set of common 3GPP functions for that product covered in 3GPP specifications, other functions not covered by 3GPP specifications, as well as interfaces to access that product. A generic network product also includes hardware, software, and OS components that the product is implemented on.”.

In 4.3.1 of TR 33.926, Figure 4.3-1 shows Network Product Class contains 3GPP defined functions, OS, Hardware, Other functions, OAM and several interfaces.

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### *4.3.1 Generic network product model overview*

*Figure 4.3-1 depicts the components of a generic network product model at a high level.
These components are further described in the following subclauses.*

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*Figure 4.3-1: GNP model*

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**Question2**: Is the term Network Product Class equal to Network Function?

**Answer2:** The Network Functions are terms referring to 3GPP functions defined in 5G timeline, such as. AMF, SMF, etc. Thus, Network Functions falls into a part of Network Product Class as the figure showing in 4.3-1.

**Question3**: What is the relationship or distinction between the terms Network Product Class, Network Function, and Network Product?

**Answer3:** The “Network Function” equals with the “3GPP defined functionalities” as defined in TR 33.926. The “Network Product Class” or “Class of Network Product” has implemented a common set of “Network Functions” as defined in TR 33.916. The instantiation of a network product class refers to a “Network Product” as defined in TR 33.916.

**Question4**: Is the above NESASG interpretation of the terms correct, based on SA3’s understanding?

**Answer4:** The NESASG interpretation is partly correct, because the SCASes are defined per “Network Product Class” or “Class of Network Product”, i.e., the SCASes are testing against an implemented including common set of 3GPP defined functionalities, Hardware, Operating System, Software, and the Interfaces (see Clause 4.2 of TR 33.926).

# 2 Actions

**To GSMA’s NESAS Group**

**ACTION:** Please take the above information into account.

# 3 Dates of next TSG SA WG 3 meetings

SA3#115AdHoc-e 15 - 19 April 2024 Electronic meeting

SA3#116 20 - 24 May 2024 Jeju (South Korea)

SA3#117 19 - 23 August 2024 Maastricht (Netherlands)