**3GPP TSG-SA5 Meeting #141-e *S5-221449***

**e-meeting, 17 -26 January 2022**

**Source: SA5 Chair, SA5 Vice chair (Huawei)**

**Title: Update of Stage 2 - Stage 3 alignment principles in SA5 working procedures**

**Document for: Discussion and Endorsement**

**Agenda Item: 5.1**

# 1 Decision/action requested

***Discuss and Endorse the proposal if possible during this meeting***

# 2 References

[1] S5-221010 SA5 working procedures

# 3 Rationale

In the current SA5 working procedures [1] we have the latest Stage 2 - Stage 3 alignment principles described in clause 24, agreed a few meetings ago. One of the main principles there is described in bullet 2 of clause 2:

* A living document (one tdoc per Work Item) shall be created to document the level of supported stage 3 SS types for each Stage 2 capability in every applicable stage 2 TS (e.g. 28.532, 28.541, 28.535). Documenting this is the responsibility of the Work Item rapporteur, with the coordination with the related stage 2 contributing companies. The table is recommened to be updated after each SA plenary, taking the input from the published TS(s) after CR implementation.

However, so far to our knowledge no such ‘living document’ has been produced. Moreover, we realised that it would be quite impractical to have such a document per work item (rapporteur) and per TS, resulting in two drawbacks:

1. When we complete a work item, especially at the end of a release this will happen frequently, we lose the continuity to the next release. But this information needs to be stable and accumulated/continued into the next release.
2. If one TS is impacted by more than one work item (likely for 28.541), it is very impractical, error prone and difficult to overview/ coordinate this information for one TS spread out over several living documents, one per work item.

Therefore we propose a **much simpler approach**, to make it easy to apply and use for everyone:

**We just create and maintain a simple table per TS with one entry added for every agreed stage 2 CR (or pCR) that causes a gap because of a missing stage 3 definition. We keep all tables in one living sdocument for all SA5 TSs. See clause 4 below.**

If we can endorse this proposal (see clause 4 below) at this meeting, **we can start applying it after** **SA5#142e**. We **then evaluate how it works for a few meetings and then decide if we should proceed with the same or a modified structure for the mapping information for all TSs**.

Note 2: In addition, we should also **consider**/discuss the following recommendation: An exception **not** to list "missing" SSs in the living document is when it is agreed that a certain NRM fragment, feature, service etc. shall not be supported by all SS supported by a TS (for example if it is agreed that a YANG SS shall not be defined for a certain NRM fragment). In that case, that decision shall be documented in the applicable TS (FFS exactly where in the TS to document that).

# 4 Detailed proposal

*(The following is an update proposal of clause 24 in [1] shown with revision marks)*

**For endorsement:** Start creating and updating the living document with mapping information described in bullet 2 and the table below, for **all CRs/pCRs agreed at SA5#142e**. Evaluate and decide if we shall proceed with the same or a modified structure/template for the living documents for all TSs, after a few meetings.

# 24 Stage 2 / Stage 3 alignment principles

1. Supported stage 3 SS types:
* The supported stage 3 SS types are YAML and YANG for Management service component A and component B.
* The supported stage 3 SS types are one of the 3 types (ASN.1 or GPB or XML) for Management service component C.
1. Mapping information of stage 2 and stage 3 management capabilities for each 3GPP release:
* For every stage 2 management capability, it must be accompanied by one or more corresponding stage 3 definition(s) for at least one of the 3 existing SS types (YAML , YANG and XML).
* A living document (one tdoc for all TSs) shall be created and maintained to document the level of supported stage 3 SS types for each stage 2 / stage 3 CR/pCR. Documenting this is the responsibility of the stage 2/3 contributing author. The combined table (living document) for all TSs is recommended to be updated by the leaders after each SA5 meeting, taking the input from the authors of every agreed stage 2 and stage 3 CR and pCR in the table format shown below.
* Table format:
	+ TS 28.541

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| *Tdoc for proposal creating a gap in SS* | *Missing SS* | *(Optional) Location of the change, e.g. clause number, IOC, etc.* |
| *S5-22xyzq* | *YANG* | *Added IOC EP\_XnC*  |
|  |  |  |

* + TS 28.622 / 28.623

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| *S5-22xyzq* | *YAML* |  |
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* Note:
	+ What to do with the cases when one tdoc (e.g. a CR) is for a case of stage 2 and stage 3 in two different TSs, for example a CR on 28.622 without any corresponding CR on 28.623? In this case, as seen above, we create one table for both TSs, to see the connection.
	+ If there is a gap in a TS created by e.g. a stage 2 CR S5-221999 at one meeting, and the gap is then “filled” by a stage 3 CR to next meeting, then simply the entry for S5-221999 is removed from the table (or moved to an “archive” section to see the history when the gap was removed).
	+ The third table column is optional, and could be filled with information in any form to help the readers get a better overview of where the gaps may be, e.g. in a particular Annex, for some IOC(s) or NRM fragments.

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