**3GPP TSG-SA5 Meeting #157 *S5-245830***

Hyderabad, India, 14 - 18 October 2024

**Source: Ericsson**

**Title: DP management of planned configuration**

**Document for: Endorsement**

**Agenda Item: 6.19.9.1**

# 1 Decision/action requested

***The group is asked to discuss and endorse the proposal.***

# 2 References

[1] 3GPP TS 28.872: "Study on Management of planned configurations"

[2] 3GPP SP-241379: “New WID on Management of planned configurations”

# 3 Rationale

Based on the study [1] a detailed solution is started. In this paper we describe some principles for the solution and provide an OpenAPI yaml file to describe the solution. The yaml file is intended to describe the planned solution that will have to be later specified following agreed methodology. As the format of stage 2 is not clear at this point for now a yaml file is used to define some aspects of the solution.

## 3.1 Principles

Plans, transactions, operations/edits are editable. There might be a big number of plans and a big number of operations in each plan. The individual items may need to be read, references or modified. For this reason each item should be addressable with an id. Constructs such as JSON arrays that only allow addressing based on sequence order should be avoided.

Creation and modification should be separated for plans, activationJobs, validationJobs, transactions; with the goal of avoiding accidental overwriting. Use POST request over HTTP. The Id should be provided by the consumer, and the producer should reject the create request if the Id already exist. (Check against industry best practices.)

For validationJobs and activationJobs it shall be separately visible, whether the job failed, or the configuration involved has problems. E.g. validationJob itself may succeed, but it may report the validation of the plan-configuration failed. In reverse the processing of the validation (e.g. memory is full) may fail even if the configuration is correct. The status of the Job should be independent of the result of the activation/validation.

Metadata (data about a plan/activationJob/validationJob/transaction) and configuration data involved should be clearly separated.

Notifications should be supported for job state changes.

Configuration procedures and NRM data they work on should be separated.

A methodology for stage 2 should be established. It shall be decided if the stage 2 description methodology for operation and notifications in TS 32.160 is to be used. The methodology to describe schemas/data structures on stage 2 is for further study.

## 3.2 ProvMnS YAML

A YAML proposal as a basis for discussion is available in Forge on the [TS28.572\_Rel19\_Planned\_Config\_Balazs](https://forge.3gpp.org/rep/sa5/MnS/-/tree/TS28.572_Rel19_Planned_Config_Balazs) , see the file OpenAPI/openapiProvMnSPlan.yaml. In this proposal the plan management is realized as part of the provisioning MnS merged with the file TS28532\_ProvMnS.yaml. It is proposed to concentrate on the schema section updates: ConfigurationEdit, ConfigurationValidationJob, ConfigurationActivationJob, Plan, JobMonitor, JobResult.

# 4 Detailed proposal

The group is asked to endorse the principles in the clause 3.1 and discuss the YAML file in clause 3.2.