**3GPP TSG-SA5 Meeting #158 *S5-246360***

Orlando, USA, 18 – 22 November 2024

**Source: Ericsson, Vodafone, Deutsche Telekom, Telecom Italia**

**Title: Signalling traffic monitoring management NRM stage 3 of the drafted TS28.abc**

**Document for: Approval**

**Agenda Item: 6.19.22**

# 1 Decision/action requested

***For approval.***

# 2 References

[1] S5-245981, new WID signalling monitoring

[2] S5-245336, initial skeleton of draft TS28.abc signalling monitoring

# 3 Rationale

Defines Signalling traffic monitoring management NRM stage 3

# 4 Detailed proposal

Forge MR link: <https://forge.3gpp.org/rep/sa5/MnS/-/merge_requests/1434> at commit 6655960b4fb7ff773ef5ecd5325ce166bcc45e7c

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# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[x5] 3GPP TS 32.160: "Management and orchestration; Management Service Template".

[x9] Management and Orchestration APIs Stage 3 Repository <https://forge.3gpp.org/rep/sa5/MnS/-/tree/Tag_Rel18_SA103/>

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## 7.2 YANG Definitions

The present clause contains the YANG definitions for the STM NRM.

The Information Service (IS) of the STM NRM is defined in subclause 6.2.

Mapping rules to produce the YANG definition based on the IS are defined in 3GPP TS 32.160 [x5].

YANG definitions are specified in 3GPP Forge [x9].

Directory: yang-models

Files: \_3gpp-5gc-nrm-stmfunction.yang

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\*\*\* yang-models/\_3gpp-5gc-nrm-stmfunction.yang \*\*\*

<CODE BEGINS>

module \_3gpp-5gc-nrm-stmfunction {

yang-version 1.1;

namespace urn:3gpp:sa5:\_3gpp-5gc-nrm-stmfunction;

prefix stm3gpp;

import \_3gpp-common-top { prefix top3gpp; }

import ietf-inet-types { prefix inet; }

import \_3gpp-common-yang-types { prefix types3gpp; }

organization "3gpp SA5";

contact "https://www.3gpp.org/DynaReport/TSG-WG--S5--officials.htm?Itemid=464";

description "This IOC represents the STM function defined in 3GPP TS 28.abc.

Copyright 2023, 3GPP Organizational Partners (ARIB, ATIS, CCSA, ETSI, TSDSI,

TTA, TTC). All rights reserved.";

reference "3GPP TS 28.abc

Signalling traffic monitoring management";

revision 2024-11-07 { reference "S5-247077"; }

grouping STMFunctionGrp {

leaf stmTargetUri {

type inet:uri;

description "It specifies the Uniform Resource Identifier (URI) of the STM

consumer that shall receive the monitored signalling message copies ";

reference "Clause 4.4 of 3GPP TS 32.158";

}

leaf-list networkInterfaceType {

type enumeration {

enum ALL;

enum N4;

enum N5;

enum N7;

enum N8;

enum N10;

enum N11;

enum N12;

enum N13;

enum N14;

enum N15;

enum N22;

enum N58;

enum N59;

enum N80;

enum N81;

}

description "List of network interface type. it specifies the network

function whose signalling traffic is to be monitored. If this

parameter is not present or it is empty, then all Network Functions

within the SubNetwork or ManagedElement shall be monitored. This

parameter shall be omitted if the STM control object is specified

under a ManagedFunction. ";

reference "Clause 4.2.3 of 3GPP TS 23.501 for details on the

allowed values.";

}

leaf-list reportingNF {

type types3gpp:DistinguishedName;

description "List of Network Function Distinguished Name, which

specifies the target network interface type to be monitored. If

this parameter is not present or it is empty, then all applicable

interface types from the target NF shall be monitored";

}

leaf administrativeState {

default UNLOCKED;

type types3gpp:BasicAdministrativeState ;

description "It is used by the STM consumer to lock or unlock the

StmCtrl instance in order to stop or start the signalling traffic

monitoring";

}

leaf operationalState {

config false;

mandatory true;

type types3gpp:OperationalState ;

description "It is used by STM consumer to report its working state";

}

}

grouping STMFunctionSubTreee {

description "Contains classes that manage Tracing.

Should be used in all classes (or classes inheriting from)

- SubNnetwork

- ManagedElement

- ManagedFunction

If a YANG module wants to augment these classes/list/groupings they must

augment all user classes!";

list StmCtrl {

description "This IOC represents the STM Control and Configuration

parameters of a particular STM controlling. It can be

name-contained by SubNetwork, ManagedElement, or ManagedFunction.";

key id;

uses top3gpp:Top\_Grp ;

container attributes {

uses STMFunctionGrp ;

}

}

}

}

<CODE ENDS>

\*\*\* END OF CHANGE \*\*\*