SG13-C541 STUDY GROUP 13

STUDY PERIOD 2017-2020 Original: English

Question(s): 19/13 Geneve, 03-07-2018

CONTRIBUTION

Source: Telecom Engineering Centre, Department of Telecommunications, Ministry of

Communications, Government of India; Orange Polska S.A.

Title: Proposal on new work item- "Cloud Computing - End to End Fault & Performance

Management Framework of Multi-Cloud Virtual Network Services"

Purpose: Proposal

Contact: Lav Gupta Tel: + 91 11 23320252

DOT Fax: + 91 11 23329088

India E-mail: lavgupta@wustl.edu

Contact: Mahabir Parshad Tel: +

TEC DOT Fax: +
India E-mail:

Contact: Arvind Chawla Tel: +

TEC DOT Fax: +

India E-mail: arvind.chawla@gov.in

Contact: Sridhar Sapparapu Tel: +

TEC DOT Fax: +
India E-mail:

Contact: Emil Kowalczyk Tel: +48 502 397 809

Orange Polska S.A. Fax: +

Poland E-mail: emil.kowalczyk@orange.com

Contact: Janusz Pieczerak Tel: +48 502 709 314

Orange Polska S.A. Fax: +

Poland E-mail: janusz.pieczerak@orange.com

Keywords: Multi cloud; fault management; performance management; virtual network service

Abstract: This contribution proposes A.1 Justification form for proposed new work item

related to End to End Fault & Performance Management Framework of Multi Cloud

Virtual Network Services. NWI is proposed by C540.

Annex xx

A.1 justification for proposed draft new Recommendation Y.xxx

Question:	19/13	Proposed new ITU-T Recommendation	Geneve, Switzerland, July 2018	
Reference and title:	ITU-T Y.xxx " Cloud computing - End to End Fault & Performance Management Framework of Multi Cloud Virtual Network Services "			
Base text:	C.540		Timing:	2020-06
Editor(s):	Name, Member name, tel, e-mail address		Approval process:	AAP

Scope (defines the intent or object of the Recommendation and the aspects covered, thereby indicating the limits of its applicability):

This document provides a framework and requirements for:

- NFVIaaS,
- VNFaaS.
- Virtual Network Services (VNS) in multi TSP domains over multi CSP Clouds
- End to End Fault and Performance Management of Multi Cloud Virtual Network Services

Summary (provides a brief overview of the purpose and contents of the Recommendation, thus permitting readers to judge its usefulness for their work):

This Recommendation describes the deployment of telecommunication network services over multiple clouds using NFVIaaS and/or VNFaaS to provide VNSs. It proposes the paradigm of end-to-end fault and performance detection and localization in multi-cloud based virtual network services as a means to achieve carrier grade reliability and availability. The framework and functional requirements are provided to enable the end-to-end fault and performance management. The approach is generic in nature and is applicable to all member states.

Relations to ITU-T Recommendations or to other standards (approved or under development):

Y.3500, Y.3502, Y.3510, Y.3511, Y.3520

Liaisons with other study groups or with other standards bodies:

ITU-T SG2, ETSI ISG NFV

Supporting members that are committing to contributing actively to the work item:

Telecom Engineering Centre, Department of Telecommunications, Ministry of Communications, Government of India; Orange Polska S.A.;