1st IEEE / IFIP International Workshop on SDN Management and Orchestration

9th May 2014 - Krakow

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Agenda (1)

8.15 – 9.45 SDN Management and Orchestration - Chair/Moderator: A. Galis – University College London, U.K.

Key Note Presentation: "***Softwarization: A Shift of Paradigm***" *Antonio Manzalini – Telecom Italia*

Panel: "*Managing softwarization in modern networking and future networks and services including 5G Networks*"

- Slawomir Kuklinski - Orange Lab, Poland
- Antonio Manzalini - Telecom Italia, Italy
- Zoltan Turanyi - Ericsson, Hungary
- Riccardo Guerzoni - Huawei Germany

10.15 – 12.00 Orchestration and Management (I) - Chair/Moderator: Antonio Manzalini - Telecom Italia, Italia

- ***OrchSec: An Orchestrator-Based Architecture For Enhancing Network-Security Using Network Monitoring And SDN Control Functions*** Adel Zaalouk (RWTH Aachen University), Rahamatullah Khondoker (Fraunhofer SIT), Ronald Marx (Fraunhofer SIT), Kpatcha Bayarou (Fraunhofer SIT).
- ***Programmable Management Framework for Evolved SDN*** Slawomir Kuklinski (Orange Lab, Poland / Telekomunikacja Polska).
- ***Towards a Scalable Software-Defined Network Virtualization Platform*** Zdravko Bozakov (Leibniz Universität Hannover), Panagiotis Papadimitriou (Leibniz Universitat Hannover).
- ***The Dynamic Placement of Virtual Network Functions*** Stuart Clayman (University College London), Elisa Maini (University of Naples Federico II, Naples), Alex Galis (University College London), Antonio Manzalini (Telecom Italia), Nicola Mazzocca (University of Naples Federico II, Naples).
- ***SLA Management and Service Composition of Virtualized Applications in Mobile Networking Environments*** Giada Landi (Nextworks), Thijs Metsch (Intel GmbH), Pedro Miguel Neves (Portugal Telecom Inovação), Julius Mueller (TU Berlin), Andy Edmonds (Zurich University of Applied Sciences), Paolo Secondo Crosta (Italtel).

Agenda (2)

13.30 -15.15 Orchestration and Management (II) Chair/Moderator: Slawomir Kuklinski - Orange Lab

- ***Zoning for Hierarchical Network Optimization in Software Defined Networks*** Xu Li (Huawei Technologies Canada), Petar Djukic (Huawei Technologies Canada), Hang Zhang (Huawei).
- ***Design and Implementation of a Carrier Grade Software Defined Telecommunication Switch and Controller*** Julius Mueller (TU Berlin), Yuwen Chen (TU Berlin), Benjamin Reichel (TU Berlin), Valentin Vlad (Fraunhofer FOKUS), Thomas Magedanz (Fraunhofer Institut FOKUS).
- ***An Analytical Tool for Performance Evaluation of Software Defined Networking Services*** Alfio Lombardo (University of Catania), Antonio Manzalini (Telecom Italia), Vincenzo Riccobene (University of Catania), Giovanni Schembra (University of Catania).
- ***Method for Evolving Networks by Introducing New Virtual Node/Link Types using Node Plug-ins*** Yasusi Kanada (Hitachi).
- ***QoE-based Bandwidth Allocation with Software Defined Networking in FTTH*** Networks Li Kailong (Shanghai Jiao Tong University), Guo Wei (Shanghai Jiao Tong University), Zhang Wenyu (Shanghai Jiao Tong University), Hu Weisheng (Shanghai Jiao Tong University)

15.45- 16.45 Network and Management Abstractions - Chair/Moderator: Julius Mueller - TuB, Germany

- ***VCell: Going Beyond the Cell Abstraction in 5G Mobile Networks*** Roberto Riggio (CREATE-NET), Karina Gomez (CREATE-NET), Leonardo Goratti (CREATE-NET), Riccardo Fedrizzi (CREATE-NET), Tinku Rasheed (CREATE-NET).
- ***ovstack : A Protocol Stack of Common Data Plane for Overlay Networks*** Ryo Nakamura (University of Tokyo)
- ***Traffic Engineering for Software-Defined Radio Access Networks*** Hamid Farmanbar (Huawei), Hang Zhang (Huawei).

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"Softwarization: A Shift of Paradigm”

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Managing softwarization in modern networking and future networks and services including 5G Networks

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Panel Questions

1. Short statement on your view point on ”softwarization” of networks

2. What are the available key s/w tools and environment suitable for developing future network features and qualities?

3. What are the models / architectures enabling softwarization of networks?

4. What are the key missing necessary abstractions and associated s/w tools to make softwarization of networks a reality? Are virtualisation and control separation from data planes sufficient?

5. What are the trade-offs which are associated with partial / full softwarization of networks?

6. Why ”softwarization” of networks is happening now?