2021-02-03 - ONAP: Special Session - Development and Evolution of Intent-based Network in ONAP

Topic Leader(s)

- Dong Wang
- LIN MENG

Topic Overview

- Development and Evolution of Intent-based Network in ONAP
- Intent-based Network is viewed as a promising technology to support the smart applications of next generation networks. In recent releases, several requirements have been proposed to develop IBN in ONAP. Therefore, we organize this special session to introduce and discuss the developments, applications and evolutions of IBN. 6 topics are provided:
- **Topic 1**: Intent-driven 5G Slicing Applications in ONAP - Development and Evolution
- **Topic 1 Description**: Intent-based Network is applied to support the smart applications of 5G Slicing. The progress of REQ-453 Smart Operator Intent Translation supporting R8 5G Slicing and the further evolution of Intent-driven 5G Slicing are introduced in this presentation.
- **Topic 1 Presentator**: Dong Wang, China Telecom
- **Topic 2**: Intelligent Slicing Requirements and Roadmap
- **Topic 2 Description**: Intelligent slicing as part of E2E Network Slicing requirement was introduced in Guilin release and have realized first try in RAN domain. in this presentation, you will get the overall roadmap of the exploration in Intelligent slicing , what we have done in Guilin release and what else we would try to involve in Honolulu and future releases.
- **Topic 2 Presentator**: LIN MENG, CMCC Swaminathan Seetharaman, Wipro
- **Topic 3**: Intent Framework and Intent Modeling
- 2021-02-03 - ONAP: Intent Framework and Intent Modeling
- **Topic 3 Description**: Intent technology helps to implement and operate networks that can improve network availability and agility. It can be viewed as one of most promising solutions towards autonomous network. This topic will introduce a general-purpose intent framework, which may contain intent management, intent translation, intent decision and execution etc. In ONAP R8, the requirement will provide the internal reference architecture and interacting with other ONAP components, and also introduce intent modeling for specific use cases.
- **Topic 3 Presentator**: yaoguang wang, Huawei
- **Topic 4**: Intelligent management of use cases with ONAP
- **Topic 4 Description**: Intelligent management of use cases with ONAP
- **Topic 4 Presentator**: Benjamin Cheung, Nokia
- **Topic 5**: Standardization activities of Intent-Based Network
- **Topic 5 Description**: This presentation will briefly introduce the standardization activities of Intent-Based Network in different international SDOs such as ETSI, IETF, ITU-T and so on. It will provide a detail review on existing works and illustrate the basic idea of varies published or ongoing international standards in the recent years.
- **Topic 5 Presentator**: Dr. Huan Deng, Standardization Expert, China Telecom
- **Topic 6**: The Progress of IBN Academic Research
- **Topic 6 Description**: This talk covers the topics on the new progress of IBN academic research, focusing on the architecture, key technologies, potential use cases, and a demo of IDN will be shown based on the hardware platform.
- **Topic 6 Presentator**: Dr. Shi Yan, Assistant Professor, Beijing University of Posts and Telecommunications (BUPT)

LF NETWORKING

LFN Developer & Testing Forum

ONAP
OPEN NETWORK AUTOMATION PLATFORM

Special Session -
Development and Evolution of Intent-based Network in ONAP

Information

Date: 2021/02/03today
Zoom ID: 974 7631 4609

Time: 21:00-23:00 (UTC+8)
Passcode: 456000

Topic

Topic 1: Intent-driven 5G Slicing Applications in ONAP - Development and Evolution
Presentator: Dr. Dong Wang, China Telecom
Time: 21:00-21:20

Topic 2: Intelligent Slicing Requirements and Roadmap
Presentator: Lin Meng, CMCC； Swaminathan Seetharaman, Wipro
Time: 21:20-21:40

Topic 3: Intent Framework and Intent Modeling
Presentator: Dr. Yaoguang Wang, Huawei
Time: 21:40-22:00

Topic 4: Intelligent management of use cases with ONAP
Presentator: Dr. Benjamin Cheung, Nokia
Time: 22:00-22:20

Topic 5: Standardization activities of Intent-Based Network
Presentator: Dr. Huan Deng, Standardization Expert, China Telecom
Time: 22:20-22:40

Topic 6: The Progress of IBN Academic Research
Presentator: Dr. Shi Yan, Assistant Professor, Beijing University of Posts and Telecommunications (BUPT)
Time: 22:40-23:00

Staff

Topic Contacts: Dong Wang (wangd5@chinatelecom.cn);
Lin Meng (menglinyjy@chinamobile.com)
Host: Ruiran Su

Slides & Recording

Topic	Slides
Intent-driven 5G Slicing Applications in ONAP - Development and Evolution Dong Wang	Intent-driven 5G Slicing Applications in ONAP - Dong Wang (China Telecom) v1.0.pptx
Intelligent Slicing Requirements and Roadmap - LIN MENG Swaminathan Seetharaman	Intelligent Slicing Requirement and Roadmap_v1.0.pptx
Intent Framework and Intent Modeling - yaoguang wang	2021-02-03 - ONAP: Intent Framework and Intent Modeling
Intelligent management of use cases with ONAP - Benjamin Cheung	R8IntelligentUseCaseMgmt-202102Fb03.pptx
Standardization activities of Intent-Based Network - Huan Deng	LFN-DDTF-PPT-Standardization activities of Intent-Based Network0127.pptx
The Progress of IBN Academic Research - Shi Yan	The Progress of IBN Academic Research.pptx

Recording

Part I: topic1-3	Part II: topic 4-6
IBN session - Part I.mp4	IBN session - Part II.mp4
IBN session - Part I.m4a	IBN session - Part II.m4a

Agenda

Awesome presentation

- Point 1
- Point 2

Minutes

Action Items

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