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Source:	Co-editors	
Title:	Draft new Recommendation ITU-T Y.IMT2020-IBNMO: "Intent-based network management and orchestration for network slicing in IMT-2020 networks and beyond"	
Purpose:	Admin	
Contact:	Yushuang Hu China Mobile China	Tel: +86-13810622705 Email: huyushuang@chinamobile.com
Contact:	Lu Lu China Mobile China	Tel: +86 13910556279 E-mail: lulu@chinamobile.com
Contact:	Dan Xu China Telecom China	Tel: +86 10 5090 2570 Fax: +86 10 5090 2564 E-mail: xudan6@chinatelecom.cn

Keywords:	intent-based, IMT-2020, enhanced, management and orchestration

Abstract:	This contribution discusses the requirements and architecture of specifying Intent-based network management and orchestration for network slicing in IMT-2020 networks and beyond, and proposes to initiate this new work item. The base document is C1113R1, March. 2021.

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No.	Source	Title	Discussion and results
C1113R1	China Mobile	Proposal for initiating a new work item on intent-based management and orchestration in IMT-2020 networks and beyond	Accepted with modification.

Draft new Recommendation ITU-T Y.IMT2020-IBNMO

Intent-based network management and orchestration for network slicing in IMT-2020 networks and beyond

Summary

The objective of this Recommendation is to specify a intent-based network management and orchestration for network slicing in IMT-2020 networks and beyond. This architecture guides the network slice deployment and management based on intent-based network.

Keywords

intent-based, IMT-2020, enhanced, management and orchestration

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Draft new Recommendation ITU-T Y.IMT2020-IBNMO

Intent-based network management and orchestration for network slicing in IMT-2020 networks and beyond

1. Scope

This Recommendation aims to describe the intent-based network management and orchestration for network slicing in IMT-2020 networks and beyond. This recommendation covers the following items, but not limited to:

- Requirements of intent-based network management and orchestration for network slicing in IMT-2020 networks and beyond;

- The architecture of intent-based network management and orchestration for network slicing in IMT-2020 networks and beyond.

2. References

The following ITU-T Recommendations and other references contain provisions which, through reference in this text, constitute provisions of this Recommendation. At the time of publication, the editions indicated were valid. All Recommendations and other references are subject to revision; users of this Recommendation are therefore encouraged to investigate the possibility of applying the most recent edition of the Recommendations and other references listed below. A list of the currently valid ITU-T Recommendations is regularly published.

The reference to a document within this Recommendation does not give it, as a stand-alone document, the status of a Recommendation.

[TBD]

[ITU-T Y.3153]   Recommendation ITU-T Y.3153 (2019), *Network slice orchestration and management for providing network services to 3rd party in the IMT-2020 network.*

[ITU-T Y.3156]   Recommendation ITU-T Y.3156 (2020), *Framework of network slicing with AI-assisted analysis in IMT-2020 networks.*

[ITU-T Y.XXXX]   Draft Recommendation ITU-T Y.IBN-reqts, *Scenarios and requirements of Intent-Based Network for network evolution*

3. Definitions

3.1. Terms defined elsewhere

This Recommendation uses the following terms defined elsewhere:

[TBD]

3.2. Terms defined in this Recommendation

This Recommendation defines the following terms:

[TBD]

4. Abbreviations and acronyms

This Recommendation uses the following abbreviations and acronyms:

[TBD]

5. Conventions

In this Recommendation:

The keywords "is required to" indicate a requirement which must be strictly followed and from which no deviation is permitted, if conformance to this Recommendation is to be claimed.

The keywords "is recommended" indicate a requirement which is recommended but which is not absolutely required. Thus, this requirement need not be present to claim conformance.

The keywords "can optionally" indicate an optional requirement which is permissible, without implying any sense of being recommended. This term is not intended to imply that the vendor's implementation must provide the option, and the feature can be optionally enabled by the network operator/service provider. Rather, it means the vendor may optionally provide the feature and still claim conformance with this Recommendation.
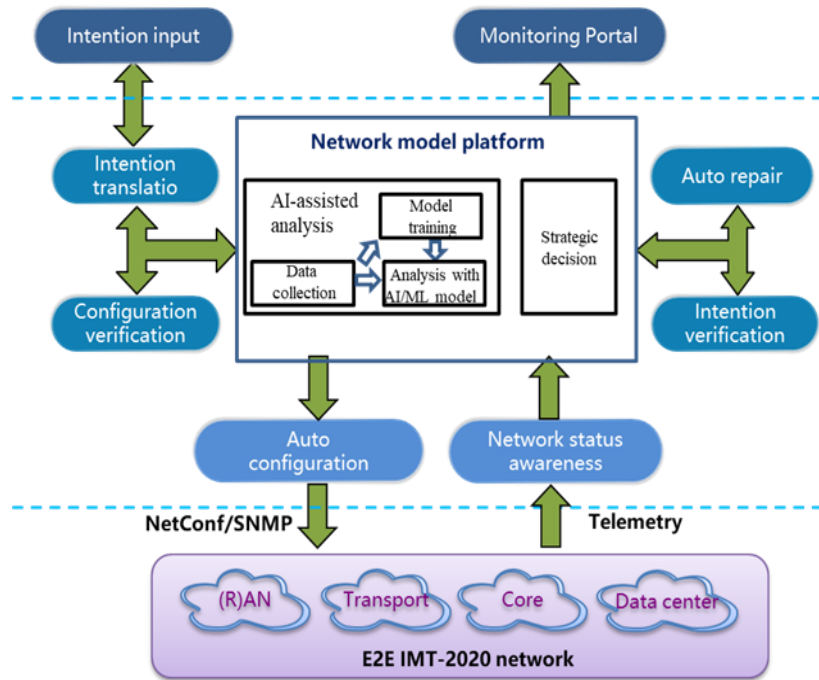
6. Overview

[Editor's Note] This clause provides the overview on intent-based network management and orchestration for network slicing in IMT-2020 networks and beyond, which includes the concept, objectives, framework and key technologies of intent-based network management and orchestration for network slicing in IMT-2020 networks and beyond.

7. Requirements of intent-based network management and orchestration for network slicing in IMT-2020 networks and beyond

[Editor's Note] This clause will describe the requirements of intent-based network management and orchestration for network slicing in IMT-2020 networks and beyond.

8. Architecture of intent-based network management and orchestration for network slicing in IMT-2020 networks and beyond

[Editor's Note] This clause specifies the architecture of intent-based network management and orchestration for network slicing in IMT-2020 networks and beyond.

9. Security Considerations

[Editor's Note] This clause presents the security considerations of intent-based network management and orchestration for network slicing in IMT-2020 networks and beyond.

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