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ASSOCIATED MEASUREMENTS AND TESTS

Signalling requirements and protocols for the NGN –
Network signalling and control functional architecture

Signalling architecture of orchestration in NGNe

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Recommendation ITU-T Q.3058

Signalling architecture of orchestration in NGNe

Summary

The orchestration in NGNe is of great significance for next generation network evolution, because it takes the coexistence and corporation of traditional network such as NGN and SDN/NFV enabled network into consideration. This Recommendation specifies the mapping of reference points to interfaces in the signalling architecture of orchestration in NGNe, and provides the signalling requirements of the interfaces and defines the protocols used for interfaces. The descriptions of the requirements, the functional architecture and the reference points of orchestration in NGNe are aligned with [ITU-T Y.2323] and [ITU-T Y.2324].

Keywords

Signalling architecture, NGNe, Orchestration, SDN, NFV

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Signalling architecture of orchestration in NGNe

1 Scope

This Recommendation provides the signalling architecture for orchestration in NGNe. Based on the functional architecture of orchestration in NGNe, it introduces the reference points and specifies the mapping of reference points to interfaces in the signalling architecture of orchestration in NGNe. It also provides the signalling requirements of the interfaces and defines the protocols used for interfaces.

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.

- | | |
|----------------|--|
| [ITU-T Y.2001] | Recommendation ITU-T Y.2001, <i>General overview of NGN</i> |
| [ITU-T Y.2323] | Recommendation ITU-T Y.2323, <i>Requirements and capabilities of orchestration in NGNe</i> |
| [ITU-T Y.2324] | Recommendation ITU-T Y.2324, <i>Functional architecture of orchestration in NGNe</i> |

3 Definitions

3.1 Terms defined elsewhere

This Recommendation uses the following terms defined elsewhere:

3.1.1 Next Generation Network (NGN) [ITU-T Y.2001]: A packet-based network which is able to provide telecommunication services and able to make use of multiple broadband, QoS-enabled transport technologies and in which service-related functions are independent from underlying transport-related technologies. It enables unfettered access for users to networks and to competing service providers and/or services of their choice. It supports generalized mobility which will allow consistent and ubiquitous provision of services to users.

3.2 Terms defined in this Recommendation

None

4 Abbreviations and acronyms

AFE	Adaptor Functional Entity
BSS	Business Support System
CMS	Cloud Management System
CMS-AFE	Cloud Management System Adaptor Functional Entity
CPE	Customer Premise Equipment