Information Model of Control-Plane and User-Plane separation BNG

draft-wcg-i2rs-cu-separation-infor-model-02

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Design Concept

• Motivation
  • Virtualize and centralize the BNG’s Control Plane.
  • Provides significant benefits such as
    • centralized session management, flexible address allocation, high scalability for subscriber management capacity, and cost-efficient redundancy, etc.

• Objective
  • Defines a set of information models to present the interaction interface between CP & UPs.
  • To improve the interworking of different devices.
Updates since last IETF meeting

• Specifies the information model in Routing Backus-Naur Form.
• Add section to introduce the usage of CU separation.
• Rewritten some text to improve the draft’s readability.
• New authors join us – Weclome Victor Lopez and Shujun Hu
The Model Overview

- <cu-separation-bng-infor-model>
  - <cu-separation-bng-infor-model>
  - <control-plane-infor-model>
  - <user-plane-infor-model>
  - <user-related-infor-model>
    - <user-related-infor-model>
    - <ipv4-infor>
      - <ipv4-infor>
      - <ipv6-infor>
        - <ipv6-infor>
        - <qos-infor>
          - <qos-infor>
          - <service-type>
            - <service-type>
            - <interface-related-infor-model>
            - <address-field-distribute>
              - <address-field-distribute>
              - <port-resources-infor-model>
                - <port-resources-infor-model>
                - <traffic-statistics>
                  - <traffic-statistics>

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Next Steps

• Solicit more comments.

• Ready for WG adoption.
  • What do the chairs recommend?