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Subject: The Disaggregated Architecture of BNG in BBF TR-384

Dear colleagues,

We would like to inform IETF that BBF has approved a new technical report TR-384, titled "Cloud Central Office Reference Architectural Framework", which provides a common cloud platform reference architecture for restructuring the Central Office. Operators will have the opportunity to run a single network with all varieties of access technologies, and flexibly deploy innovative services with shortened time-to-market.

TR-384 shows a way of disaggregating the traditional Broadband Network Gateway (BNG), i.e. the IP service edge of a fixed network, into various network functions and separates service control plane and user plane. Further, the BNG service control plane and its user plane can be separately

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deployed, with the service control plane centralized and virtualized providing significant benefits such as centralized session management, flexible address allocation, high scalability for subscriber management capacity, and cost-efficient redundancy, etc., while the user plane distributed and localized. The User Plane Management module in the BNG service control plane centrally manages the distributed BNG user plane as well as the setup, deletion, and maintenance of interfaces between the BNG control plane and the user plane. The details regarding the interfaces need to be further investigated.

Currently in IETF, the standards work on the interfaces of the disaggregated BNG has started. For example, the draft "Information model of control plane and user plane separation BNG": https://datatracker.ietf.org/doc/draft-cuspdt-rtgwg-cu-separation-infor-model/.

In addition, the draft "Requirements for the protocol of the control plane and user planes separation BNG": https://datatracker.ietf.org/doc/draft-cuspdt-rtgwg-cusp-requirements/

We look forward to continued IETF progress on the drafts for interfaces of the disaggregated BNG which will give operators a complete view of the BNG disaggregation. It also can provide a standardized way to manage multiple vendors in the BNG access devices and improve the cooperation and interconnection of different vendors' devices. Therefore, the standards works are very important to the BNG disaggregation's deployment and development.

Please find the link to BBF TR-384 "Cloud Central Office Reference Architectural Framework" https://www.broadband-forum.org/technical/download/TR-384.pdf

Sincerely,

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