# Updates for Information Model of C&U separation BNG

draft-wcg-i2rs-cu-separation-infor-model-01

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## Design Concept

#### • Background -BBF relative works:

- BNG CU Separation got accepted by WT-384
- The steady version now is WT-384\_Rev.08
- WT-384 will enter straw ballot



- Motivation
  - **Improves Resource Utilization:** Centralized control plane provides the capability of unified managing the network resource & user's information. It has the overall view of resources and can distribute the resources as required.
  - **Simplified Management:** Centralized control plane provides unified management interface to the outside system, such as EMS, DHCP server, Radius, etc.
  - **Fast TTM:** Control plane and user plane can be extended separately according to different situations. It can help to shorten the time to marketing.
  - **Dynamic control plane:** A large number of users access at any time. It requires a dynamic control plane to handle it.
- Objective
  - Defines a set of information models to present the interaction interface between CP & UPs. It helps to achieve the interworking of different devices.
    - Define an information model for Control-Plane. It presents that the Rules/Entries which are generated by the centralized Control-Plane.
    - Define an information model for User-Plane. It introduces what attributes will be reported by the User-Plane.



### The Usage Example of information model

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### Update in 01 version

- Update the user-plane information model:
  - Rewrite some UP's information model, corrects clerical errors to improve the readability.



- Adds an appendix section to brief introduce an example for CU separated BNG YANG data model.
  - Reuse the existing works to assemble the YANG data model.
  - Present the instance of CU separated BNG.



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### Next Steps

- Ally with corresponding works of BBF.
- Solicit more comments and suggestions.
- Prepare an other version to address received comments.
- Call for adoption...