metin, diyagram, plan, şematik içeren bir resim

Açıklama otomatik olarak oluşturuldu

[1] R. Kuhne, G. Huitema, and G. Carle, "Charging and Billing in Modern Communications Networks — A Comprehensive Survey of the State of the Art and Future Requirements," \*IEEE Communications Surveys & Tutorials\*, vol. 14, no. 1, pp. 170-192, First Quarter 2012, doi: 10.1109/SURV.2011.122310.000084.

Adapted from [1, Section IV, D, 1]

Makale link :

[An overview of online charging in 3GPP networks: new ways of utilizing user, network, and service‐related information - Grgic - 2013 - International Journal of Network Management - Wiley Online Library](https://onlinelibrary.wiley.com/doi/full/10.1002/nem.1816?saml_referrer)

<https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=4082456>

[Charging and Billing in Modern Communications Networks — A Comprehensive Survey of the State of the Art and Future Requirements | IEEE Journals & Magazine | IEEE Xplore](https://ieeexplore.ieee.org/abstract/document/5692881)