

Cost Efficient – Secure – 5G TV Services Delivered Using Today's Infrastructure

Problem:

Extending the 5G New Radio cellular network, as proposed by the telecommunications standards organization 3GPP, requires cost-prohibitive deployment of new satellite infrastructure, while not guaranteeing data rates necessary to support TV streaming services.

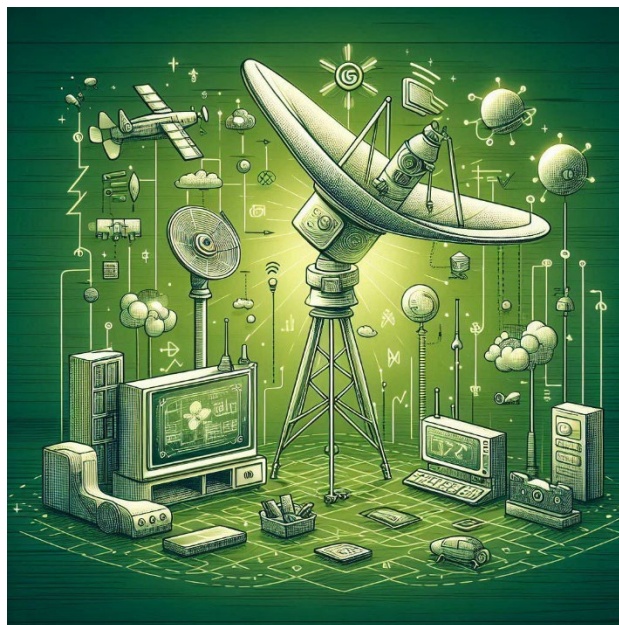
Solution:

This novel innovation leverages the 5G core network while using existing satellite infrastructure and ground stations to provide TV services.

This solution allows the 5G MBMS network to provide all of the 5G network features while using a legacy satellite physical and radio resource layer to deliver the service.

Advantages:

- Security and flexibility of the 5G network without full replacement of existing infrastructure
- Cost efficient and technically feasible use of use of existing satellite and cellular infrastructure
- Data rates high enough to support TV streaming services



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