



## Secure-Mobile Virtual Network Operator (S-MVNO)

Activity field of virtual operators includes a wide range, but on the whole, the operator does not invest in in the Radio Access Network (RAN) and uses the RAN of one or more Main Network Operators (MNO) in the country. Virtual operator concentrates on Core Network and invests in it. A parts of the MVNO range includes the operators that presents their private SIM cards without any private infrastructure (Light MVNO). In addition, Full MVNOs including radio infrastructures and other sections of mobile communication network (Core Network Equipment) privately/independently are a part of the range. It is evident that variety of virtual operator's services depends on number of its private infrastructure equipment. In this case, managing the subscribers, security and security control, Quality of Services (QoS), and pursuing the related policy is performed by virtual operator.



## Various MVNOs and accomplished Access Point Name (APN) are described in the following table briefly. Potential areas of participation

designated to MNOs

Full MVNO **Full MVNO** Private Network Type **Light MVNO** APN **GWCN** Network MOCN **Public safety** services Q A 6 OSS+BSS VPN MVNE (Sisteer) Conceptual Structure aht MVNO (aka service operator) Customer interconnects with Full MVNO Core, transmission In this status, all of **MVNE** (Mobile Most of the Core infrastructure, and It is a complete the Core nodes are Virtual Network important nodes access are operator. available in the Enabler) instead of Structure especially data base operator's side. MVNO and using the operator. Private network subscribers Customer has only including Core and radio part of different Billing and charging Description applicable except control nodes its Access parts MNOs from various management is (VoIP are available in the servers available. interconnecting with operators can be Server, POC Server, MVNO. accomplished. subscribers are in and ...) customer's network side.