

### 1.1. Mobile Virtual Network Operator Licence – (MVNO)

An MVNO is an entity that does not have spectrum of its own for Access Services but is licensed to provide Access Services to its customers through an agreement with any licensed access provider (also called an MNO). The MVNO shall not possess spectrum for access services in any manner including licensing of spectrum.

MVNOs shall be introduced as distinct service providers with their own licensing and regulatory framework.

The NCA issued two (2) full MVNO Licences in 2015, but none of them have begun operations.

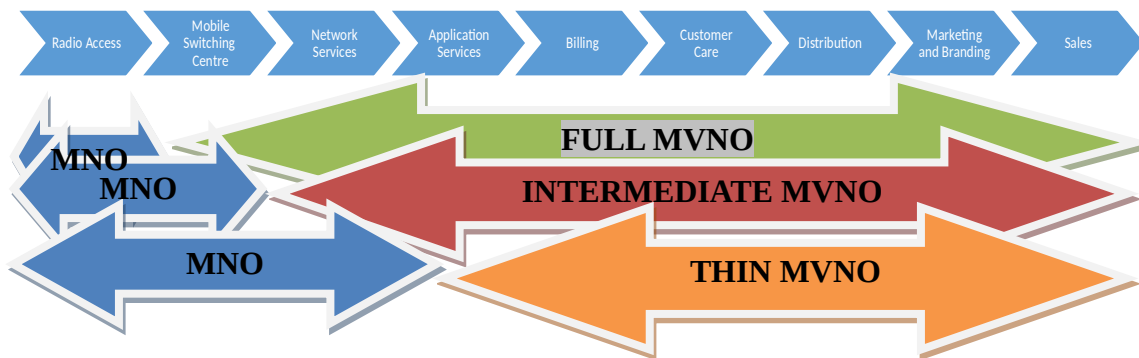
#### TYPES OF MOBILE VIRTUAL NETWORK OPERATORS (MVNOS)

The three types of MVNO models are indicated below:

- a. Full MVNOs, which have their own core network including Mobile Switching Center (MSC);
- b. Intermediate MVNOs, which acquire a switched service from the Mobile Network Operator(MNO), but either provide their own Home Location Register (HLR) or share a jointly owned HLR with an MNO; and
- c. Thin MVNOs, which may provide access services with additional applications and content and they are not much different from pure resellers.

The borders between these three different types of MVNOs are illustrated in Figures 2 and 3.

**Figure 2 MVNO Model Network Scope**



**Figure 3 MVNO Model Network Systems**

