The Study for Configuration Multi-Tenant Network in SDN Controller

*ETRI (Electronics and Telecommunications Research Institute), KOREA

{uni2u, skang, jiyoung, bylee, shyang} @etri.re.kr

Abstract— The Virtual Tenant Network (VTN) is an application that provides multi-tenant virtual network on an SDN controller. Conventionally, huge investment in the network systems and operating expenses are needed because the network is configured as a silo for each department and system.

Keyword—OpenFlow, SDN, Multi-Tenant, VTN, IRIS

YongYoon. SHIN is a senior engineer of SDN Research Section, ETRI, Republic of KOREA, He received his Master degree at Andong University in 2008, His key research interests are: Future Internet, Software Defined Networking, Virtual Tenant Network, and OpenStack System.

SaeHoon. KANG is a senior researcher of SDN Research Section, ETRI, Republic of KOREA, He received Ph.D. at Korea Advanced Institute of Science and Technology in 2007, His key research interests are: Future Internet, Software Defined Networking, Virtual Tenant Network, and ARP Sever System.

JiYoung. KWAK is a senior researcher of SDN Research Section, ETRI, Republic of KOREA, She received his Master degree at Chunnam University in 2001, Her key research interests are: Future Internet, Software Defined Networking, Virtual Tenant Network, and Virtual Router.

ByungYun. LEE is a principal researcher of ETRI, Republic of KOREA. He received Ph.D at Chunnam University in 2003. His key research interests are: Future Internet, Software Defined Networking, and Virtual Tenant Network.

SunHee. YANG is a leader of SDN Research Section and also a principal researcher of ETRI, Republic of KOREA. She received Master degree at KAIST in 1986. Her research interests are: Smart Internet, Future Internet, and Software Defined Networking.