Model of Transport SDN and MPLS-TP for T-SDN Controller

Chang-Gyu LIM*, Soo-Myung PAHK*, Young-Hwa KIM*

*ETRI (Electronics and Telecommunications Research Institute), Daejeon, Korea

{human, smpahk, yhwkim}@etri.re.kr

Abstract— **SDN (Software Defined Networking) is an approach to computer networking that allows network administrators to manage network services through abstraction of higher-level functionality. It has attracted attentions for even transport networks. For the management of transport network service: especially MPLS-TP(Multiprotocol Label Switching – Transport Profile), we use T-SDN(Transport SDN) controller which manages network services and resources between NBI(North Bound Interface) and SBI(South Bound Interface), based on OpenDaylight. This paper proposes the model of transport SDN and MPSL-TP. With using proposed model, T-SDN controller can make an intra/inter-domain network service easily.**

Keywords— **Transport, SDN, model**

Chang-Gyu LIM is a senior engineer of SDN Research Section, ETRI, Korea. He received his Master degree at KAIST in 2002. His key research interests are: Future Internet, Software Defined Networking and Transport Network.

Soo-Myung PAHK is a principal engineer of SDN Research Section, ETRI, Korea. He received his Ph.D. degree at Konkuk Univ. in 1999. His key research interests are: Future Internet, Software Defined Networking and Transport Network.

Young-Hwa KIM is a principal engineer of SDN Research Section, ETRI, Korea. He received his Ph.D. degree at Chungnam Univ. in 2005. His key research interests are: Future Internet and Software Defined Networking.