

Common Hardware Reference Platform for Smart Networks : Management of NFB

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Abstract— This paper proposes management technology of network function board where network common hardware platform which supports general purpose network services. As the SDN (Software Defined Network) and NFV (Network Functions Virtualization) technologies develop, the needs for low-cost hardware systems to build diverse and flexible network services are more and more increasing. According to the needs we proposed already a common hardware reference platform including network function board with goals to rapidly develop high quality network service solutions. And then we additionally provide the management technology between shelf management controller and the network function board placed in network common hardware platform. This paper describes scope and component blocks for management of NFB and specifies management flows, IPC (Inter Process Communication) protocol and sequences related management messages.

Keyword— Common Hardware Platform, Network Function Board, Management of Network Function Board, SDN (Software Defined Network), NFV (Network Functions Virtualization)



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