

專題演講

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題目：Enhancing Security for Internet of Things in Software
Defined Network

摘要：

Internet of Things (IoT) realizes convenient services such as smart home or remote healthcare. The network requirements of the services are classified into three categories in 5G mobile networks: Enhanced Mobile Broadband (eMBB), Ultra Reliable Low Latency Communications (URLLC), and Massive Machine Type Communications (mMTC). To fulfill the three network requirements, the software-defined network (SDN) is regarded as an indispensable technology. By decoupling the control plane and the data plane, controllers in SDN have more comprehensive network information to react to problems faster. Although IoT brings many benefits, the massive number of IoT devices also brings challenges to SDN. Additionally, the security of IoT and SDN is still immature. In this talk, we discuss three security issues in SDN for IoT. The first is how to prevent high forwarding latency caused by flow table overflow. The second is how to slow down the spread of IoT botnets. The last is how to prevent SDN from being paralyzed by an attacker.