The Real-time Session Inspection Method using Heartbeat Signal

Jong Beom Kim, Hyeon Yang, Kyeong Ho Park*, Si Young Lee*, Seong Gon Choi

Broadband Network Lab., Chungbuk National University, Korea

***Xabyss Inc., Korea**

dragonslash@cbnu.ac.kr, adieu@cbnu.ac.kr, khpark@xabyss.com*,

edward.lee70@xabyss.com*, choisg@cbnu.ac.kr

***Abstract*— In this paper, we present how to store the session information from the Heartbeat signal, which is generated at regular intervals during the network session, in real packet analysis tools. Since the existing session information retrieval method checks the session information at the end of the session, information cannot be confirmed in the case of an active session. To verify the information of the active session, this paper utilizes the heartbeat signal generated by the session every certain period. By analyzing active session information, it is possible to analyze information about flows and packets in a session in real time.**

***Keyword*—Active Session, Heartbeat Signal, Networking, Packet Inspection**

Jong Beom Kim received B.S. degree in the College of Electrical & Computer Engineering, Chungbuk National University, Korea in 2017. He is currently a M.S. candidate in School of Electrical & Computer Engineering, Chungbuk National University. His research interest is network programming.