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An SD-WAN Approach for EUt+ Network

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Abstract—The European University of Technology (EUt+) is an alliance of eight universities which aims to offer students the possibility of studying at different partners all over the continent and obtaining a recognized diploma. Our goal is to propose a framework for the European University of Technology network, which needs to support both the physical and virtual mobility of students between the partners. We rely on Software-Defined Wide Area Network (SD-WAN) and Management and Orchestration (MANO) for deploying the network. Next, several traffic engineering mechanisms are added to find the best path for different types of traffic and thus achieve the highest Quality of Experience for the users. Finally, we employ homomorphic encryption to secure not only student and staff personal information but also to maintain the autonomy of each partner when it comes to handling private data.

Authors: Dr IVANCIU, Iustin-Alexandru (Technical University of Cluj-Napoca); Mr BOTEZ, Robert (Technical University of Cluj-Napoca); Mr IURIAN, Calin-Marian (Technical University of Cluj-Napoca); Mr DU-MITRESCU, Aron-Valeriu (Technical University of Cluj-Napoca); Dr BLAGA, Tudor-Mihai (Technical University of Cluj-Napoca); Prof. DOBROTA, Virgil (Technical University of Cluj-Napoca)

Presenter: Dr IVANCIU, Iustin-Alexandru (Technical University of Cluj-Napoca)

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