ECO net

low Energy COnsumption NETworks

DELIVERABLE D6.3

VALIDATION AND BENCHMARKING OF SINGLE DEVICES

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1 Executive Summary

In the context of WP 3, the ECONET consortium designed several green technologies to reduce the energy requirements of wired network equipment and in the task 6.2, integrated them in a set of prototypal platforms working at different network levels (from home gateways and DSLAMs to switches and routers).

The contribution of this deliverable is composed by a number of recorded videos of the standalone energy aware device demonstration and explanations collected during the first ECONET DEMO session. The videos are linked in the following of this document for making easier their vision to a reader. Further details of the presented prototype platforms can be found in [1] and [2].

More specifically, the energy aware devices demonstrated during the DEMO are the following:

1. The IP Router platform prototype (EE-DROP) developed by CNIT, is presented at https://www.econet-project.eu/Public/Demo/CNIT.

2. The Alcatel-Lucent 20 Gb Ethernet Card with basic power management functionalities demonstration can be found at: https://www.econet-project.eu/Public/Demo/ALU.

3. The Mellanox low power features of the ConnectX®-3 Network Interface Card (NIC) and SX6036 Top-of-Rack (ToR) switch are presented at: https://www.econet-project.eu/Public/Demo/MLX.

4. The energy aware Ericsson's POTP traffic concentrator SPO1460 is presented at: https://www.econet-project.eu/Public/Demo/TEI.

5. the NetFPGA Green Router prototype developed by DCU and LGT is presented at: https://www.econet-project.eu/Public/Demo/DCULGT3.

6. The functionalities provided by the Network Connectivity Proxy designed by INFOCOM in collaboration with CNIT are demonstrated at: https://www.econet-project.eu/Public/Demo/INFO.

7. The Lantiq power saving solutions for CPE and CO (central office) side of the DSL line are presented at: https://www.econet-project.eu/Public/Demo/LQDE.

8. The Flash FPGA based Ethernet interface designed by VTT with low power mode is presented at: https://www.econet-project.eu/Public/Demo/VTT.

References

[1] The ECONET Project, "The ECONET Prototypes", Annex I of the Deliverable 3.3, available on the ECONET website.

[2] The ECONET Project, "Final integration of device prototypes with energy aware capabilities and local optimization", Deliverable 6.2, available on the ECONET website.