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High-availability Seamless Redundancy (HSR) - introduction, current Linux driver status and further development

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The High-availability Seamless Redundancy (HSR) is the protocol, which is supposed to increase the reliability of network with no decrease of its availability. Required changes to HW setup - compared to e.g. RSTP - are minimal. Moreover, some switch ICs provide possibility to offload HSR specific operations.

With contemporary Linux kernel the HSR is supported in DANH and RedBOX modes with only software mode as well as in-HW offloading for selected switch ICs.

During the network's track session a very short explanation of HSR's idea of operation would be presented. Afterwards,

status of contemporary Linux HSR driver would be examined - with emphasis on currently supported features and QEMU based testing.

The presentation would be concluded with discussion about possible improvements.

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