



Towards robust network synchronization with IEEE 802.1AS

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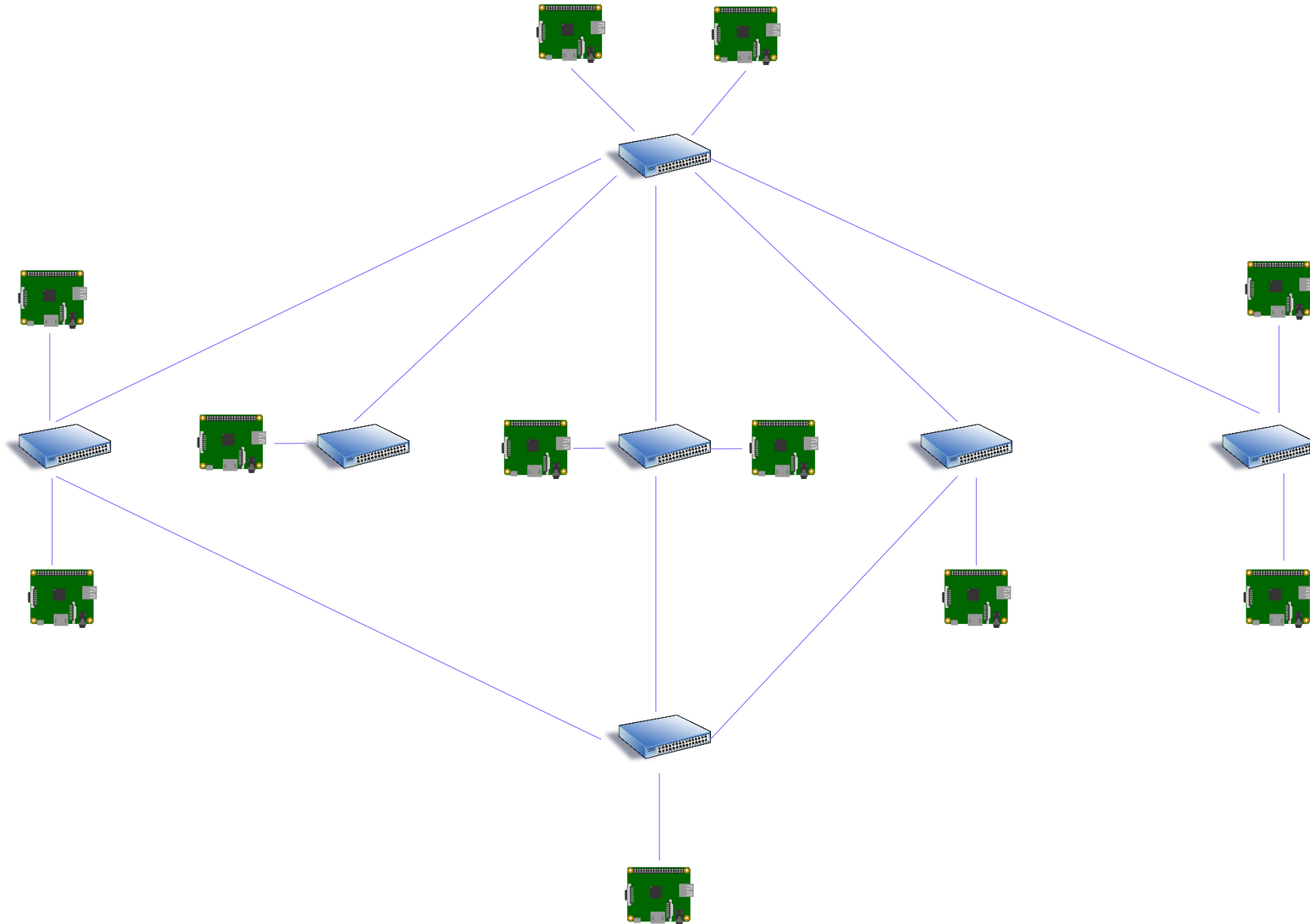
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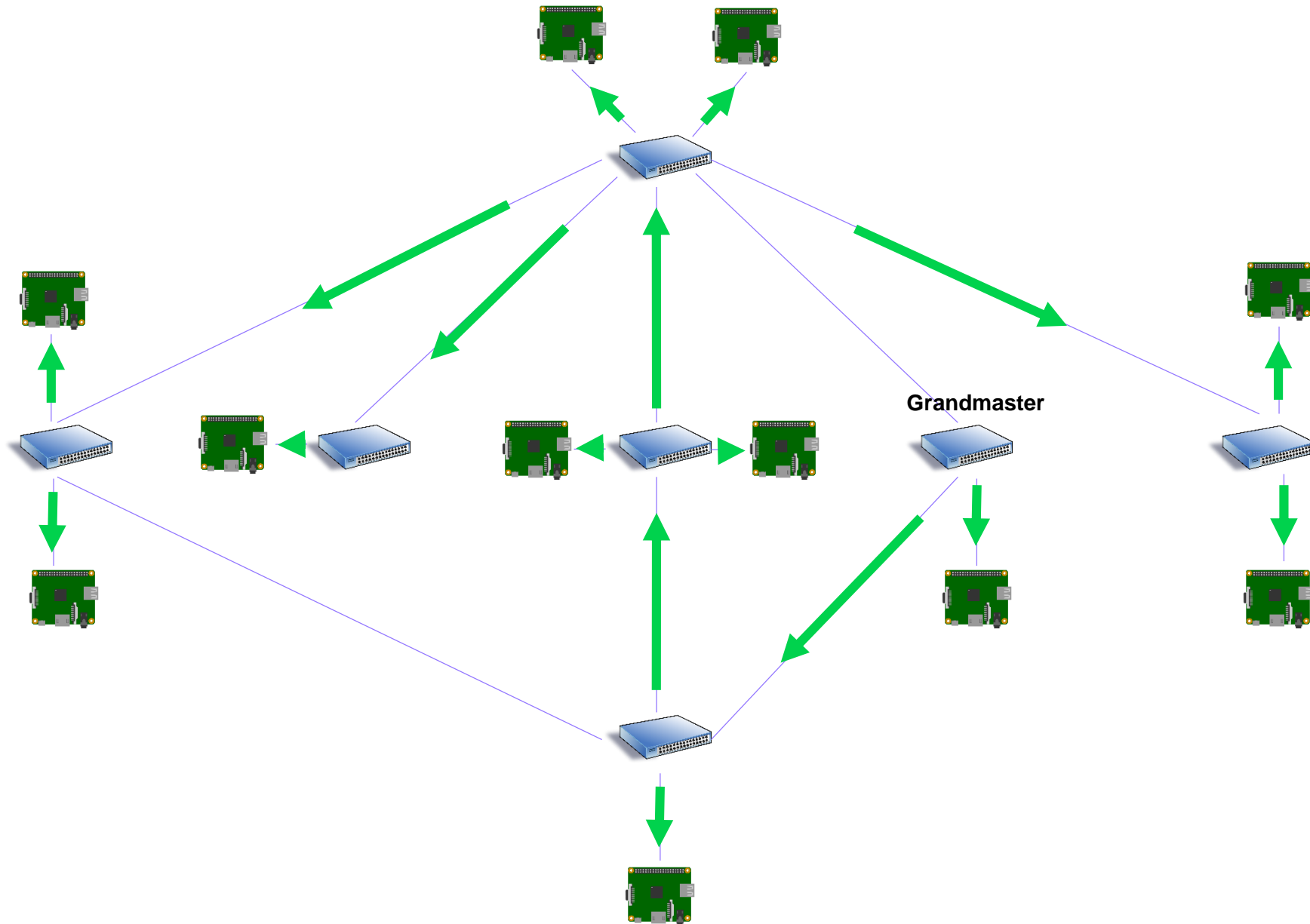
Partners :

Airbus Defence ans Space, Airbus Operation, CNES, Continental Automotive, IRIT, ISAE-SUPAERO, ONERA,
Safran ED, Thales Aliena Space and Thales Avionics

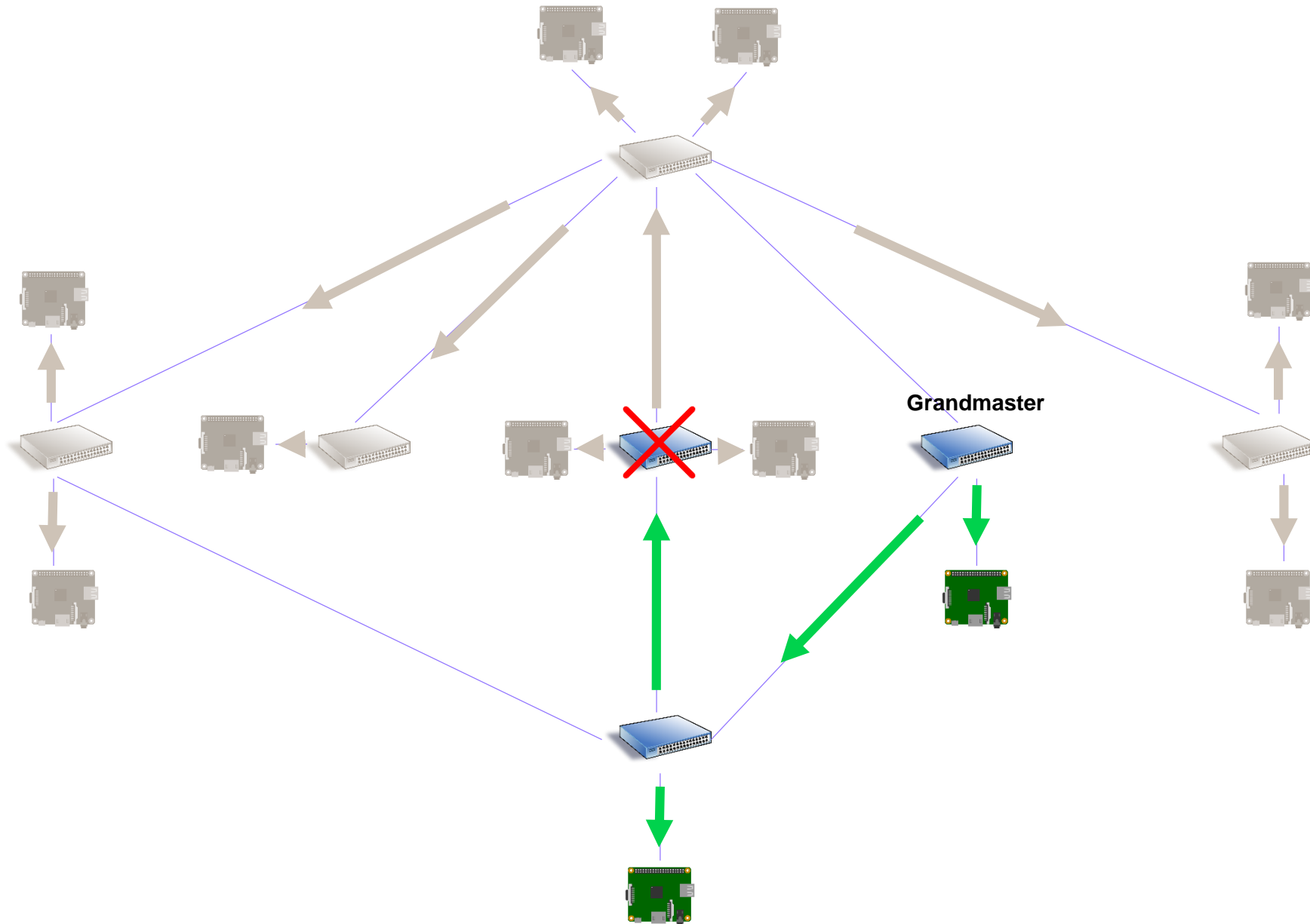
Context : TSN network



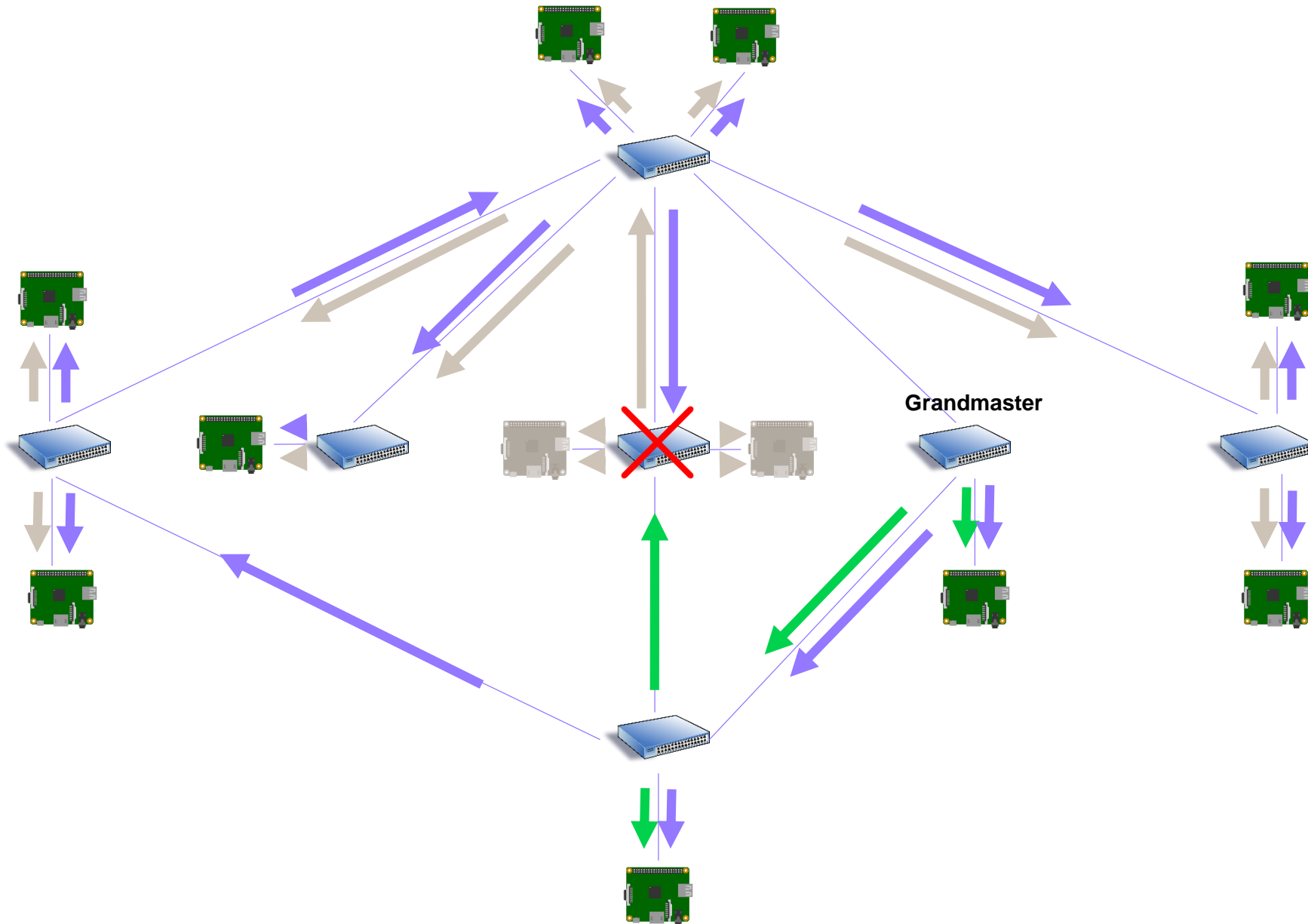
A need for synchronization



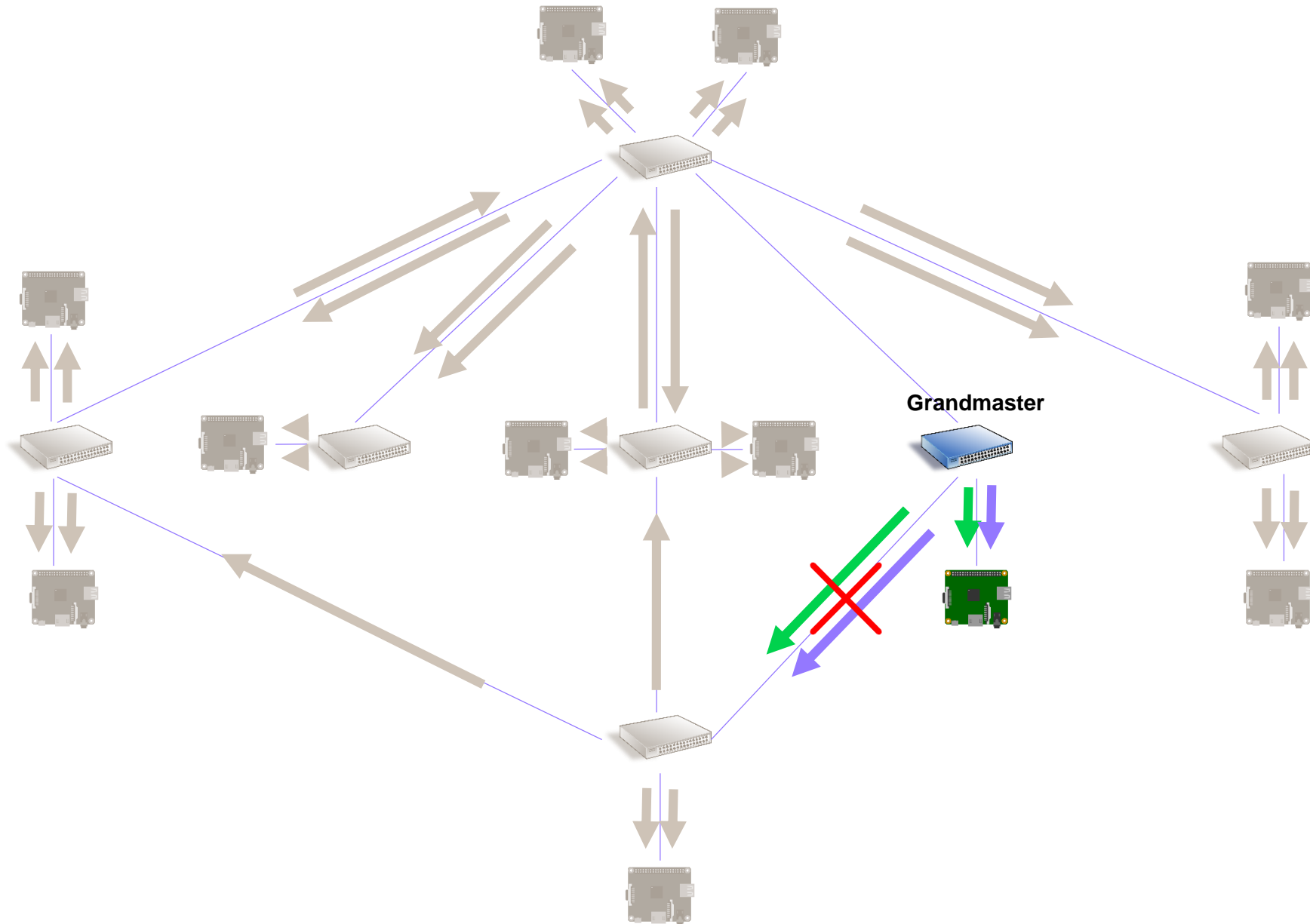
A robust synchronization ?



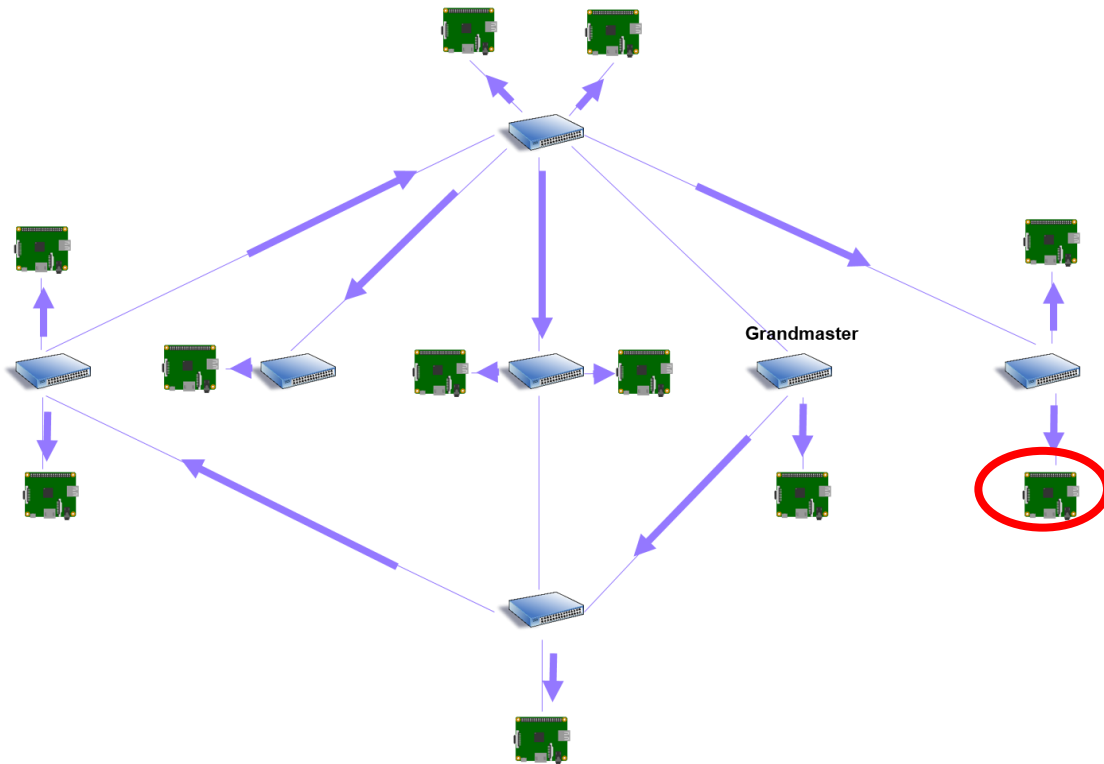
A robust synchronization ?



A robust synchronization ?

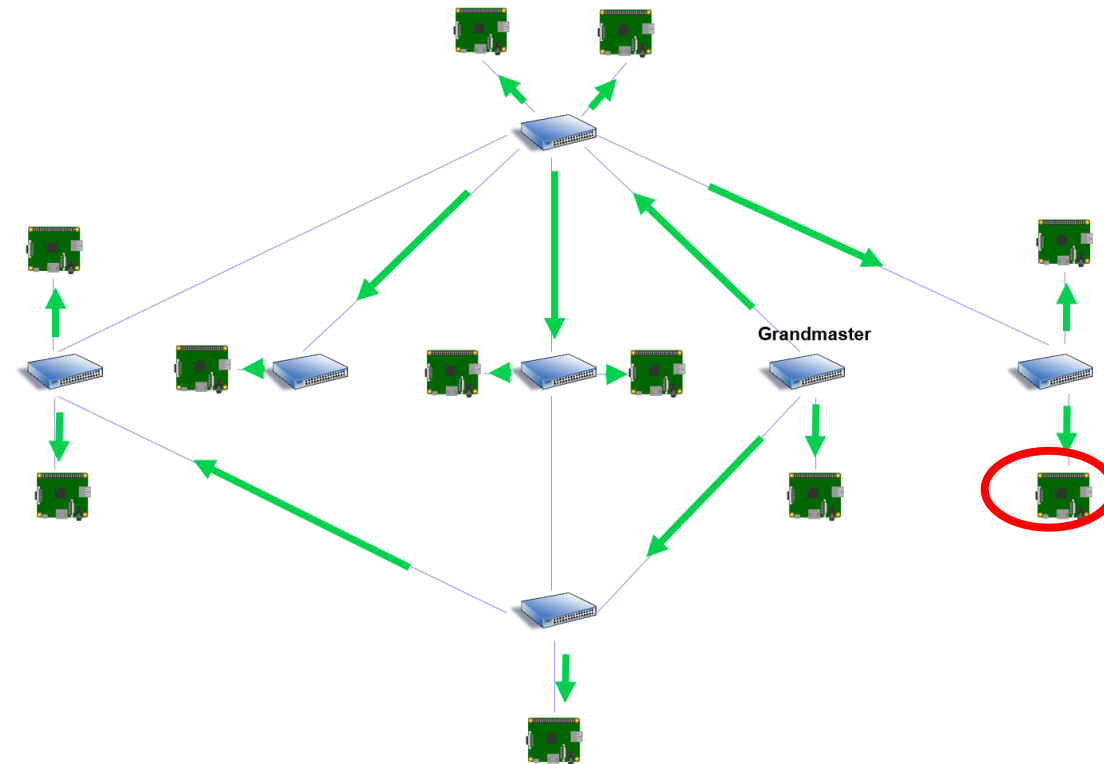


A precise synchronization ?



5 hops between the Grandmaster and the red end-station

Worst precision after synchronization in simulator : **32ns**



3 hops between the Grandmaster and the red end-station

Worst precision after synchronization in simulator : **20ns**

How to design a robust and precise configuration for IEEE802.1AS ?

Merci de votre attention

