Protection Architecture

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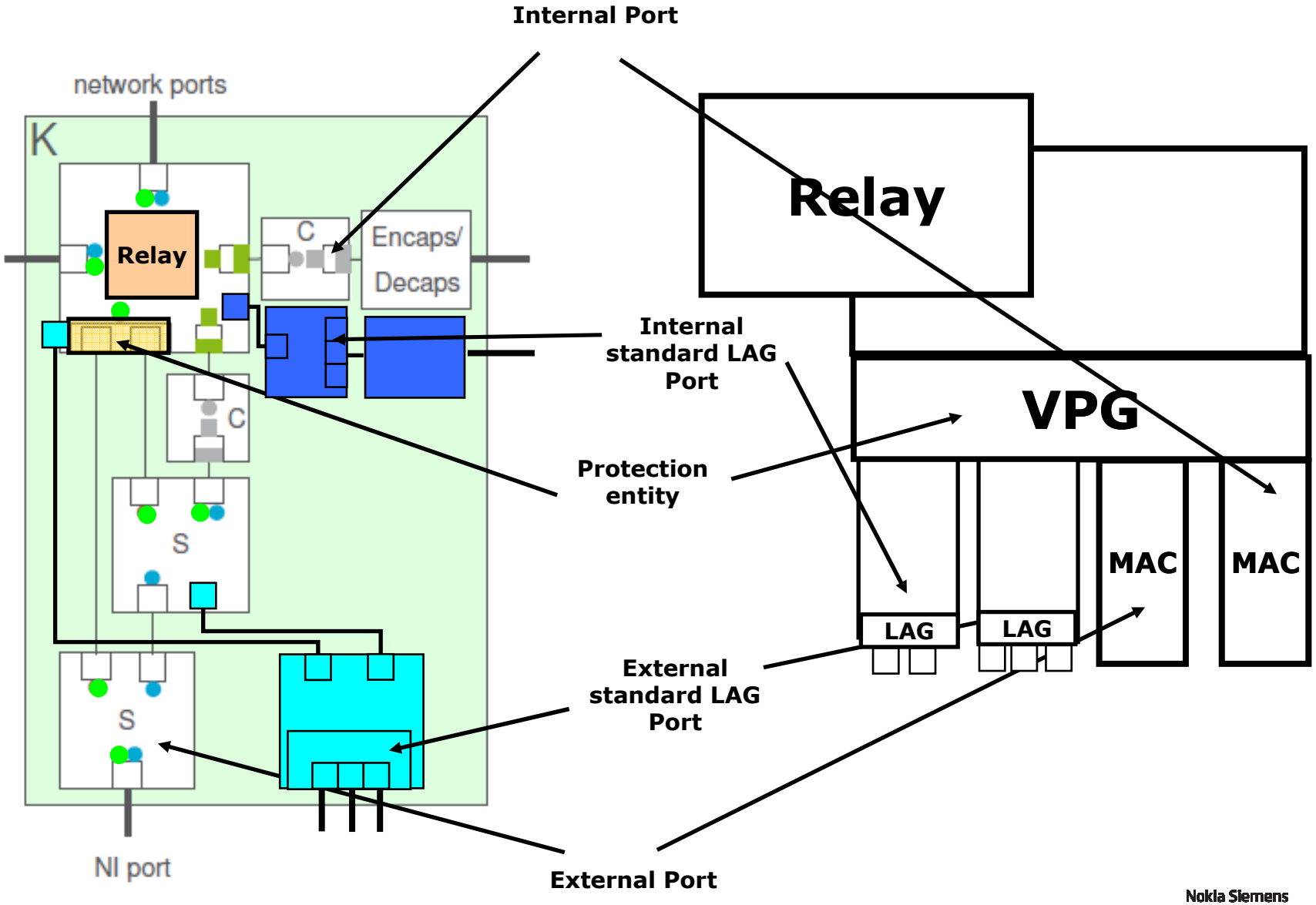
Nokia Siemens Networks

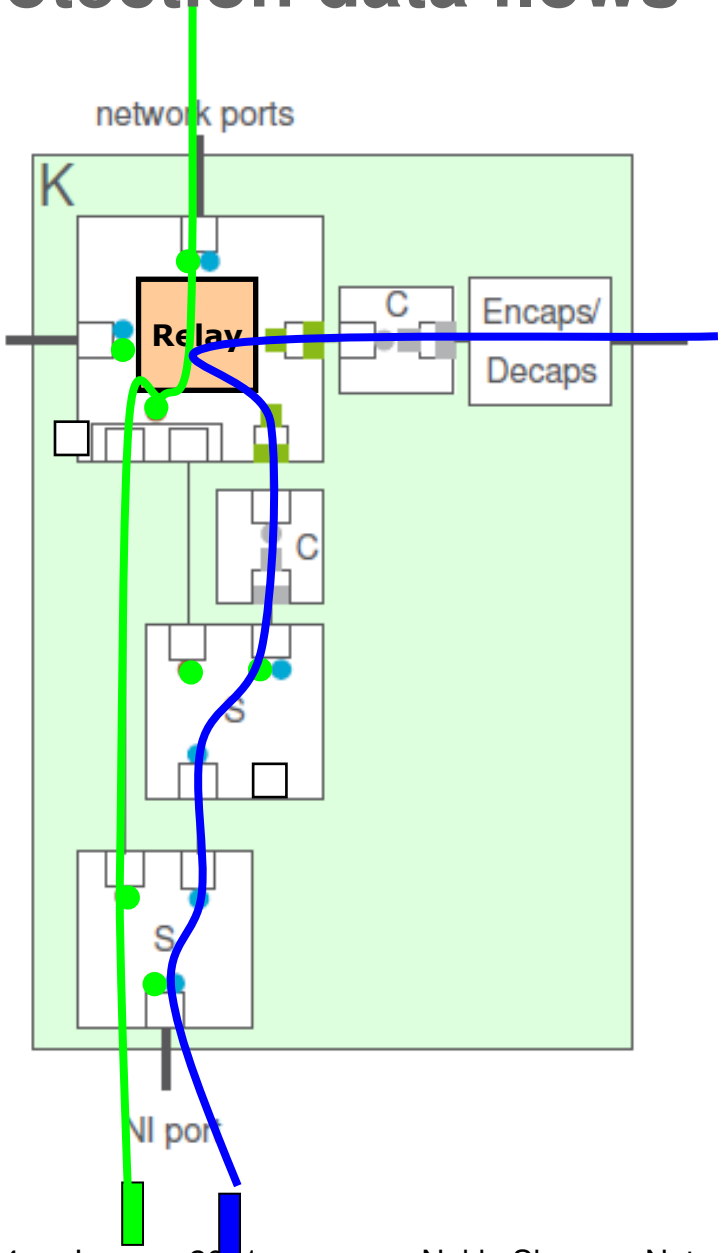
Protection architecture

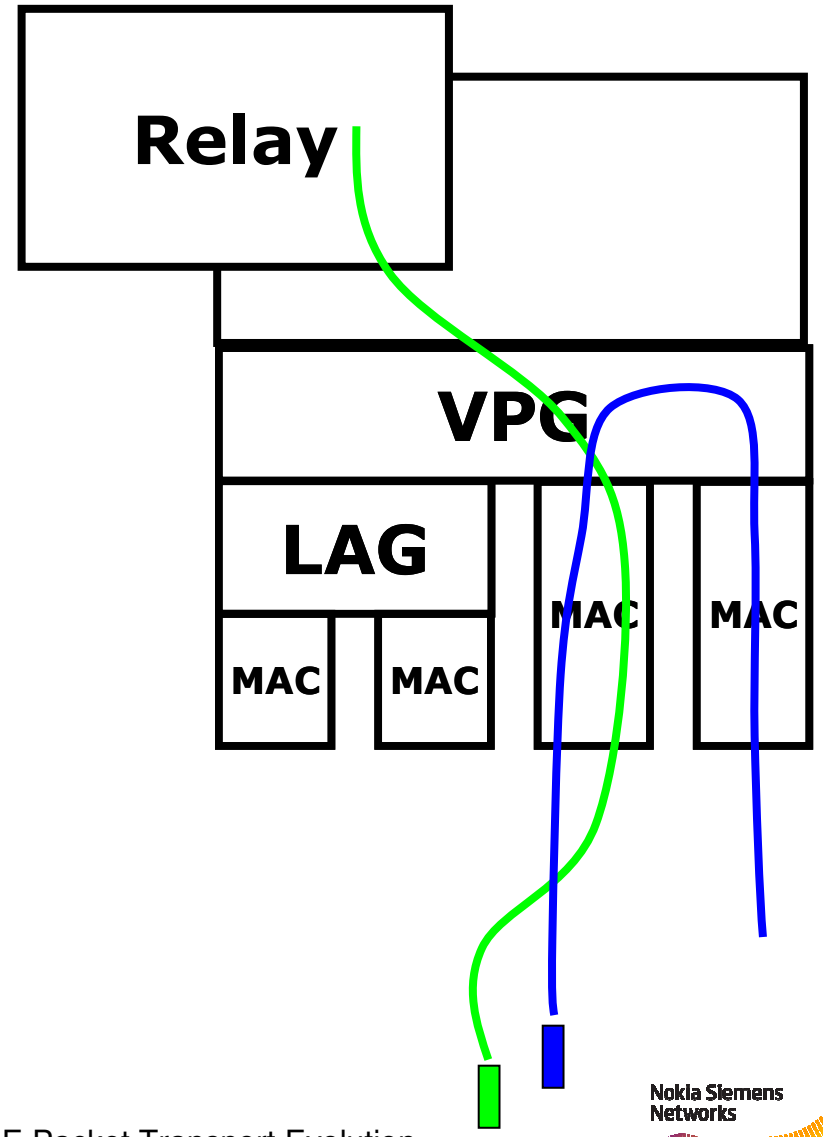
- Yesterday, Janos Farkas presented a possible layout of bridge components that can provide the data plane for NNI protection http://ieee802.org/1/files/public/docs2011/new-farkas-RNI-data-plane-0111.pdf
- The component layout reflects the INSP architecture that was presented in previous contributions.
- The functionality of the protection mechanism depends on the correct assignment of the relevant ports to the VLAN member-set.
- The assignment of ports to the VLAN member-set is determined by the status of the adjacent ports and nodes.
- The status of the adjacent ports and nodes is communicated between connected bridges.

Ports and Protection entity



Protection data flows





Conclusions

The project should define:

- The control plane – the information that needs to be communicated per VLAN
- The algorithm that determines how to set the ports in the VLAN member-set of each protected VLAN
- The way in which the Service Gateway is selected
- The building blocks of an external port as well as those of an internal port
- The management operations associated with the addition and deletion of internal and external ports
- The protocol that carries the required information

Thank You

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