



DETERMINISTIC6G

Some Considerations on Multiple Configuration Domains

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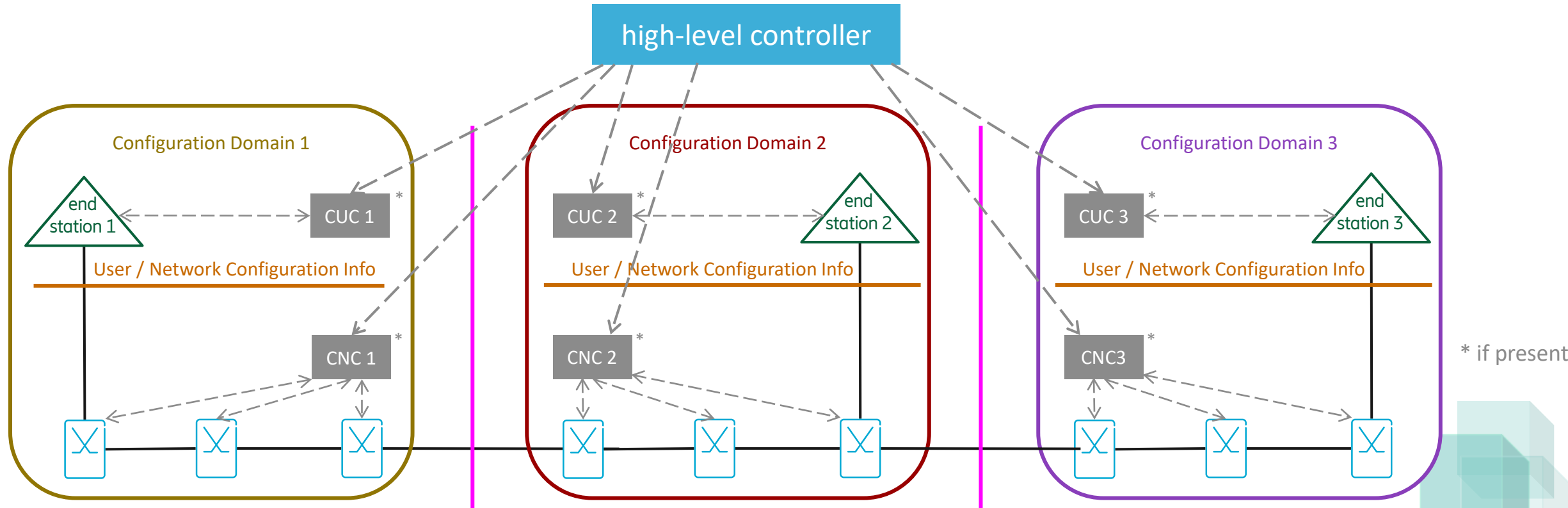


Background & Goal

- ❑ IEEE Std 802.1Qdj-2024:
3.1 Configuration Domain: A set of stations that are under a common configuration and management scheme, and a single administration.
- ❑ Some earlier presentations:
 - [1] “TSN Inter-domain Considerations”, July 2021
<https://www.ieee802.org/1/files/public/docs2021/new-farkas-inter-domain-considerations-0721-v01.pdf>
 - [2] “Some Thoughts on Multiple Configuration Domains”, September 2024
<https://www.ieee802.org/1/files/public/docs2024/new-farkas-multiple-configuration-domains-0924-v01.pdf>
- ❑ **Goal of this** (<https://www.ieee802.org/1/files/public/docs2025/new-farkas-multiple-configuration-domains-0325-v01.pdf>) **presentation:**
 - ❑ **Have a group discussion on potential work on multiple configuration domains**

High-level Controller

- ❑ **Takeaway:** Having high-level controller is a viable approach (P7, P12, P13, P14 in [2])
 - ❑ (It is also called Hierarchical SDN if the configuration domains apply centralized approach)
- ❑ Certain tasks (e.g., VID translation, Stream transformation) cannot be solved otherwise



Potential Next Steps

- ❑ There are a lot of questions and tasks to be solved for multiple configuration domains
 - ❑ some of them are listed in [\[2\]](#), but not all
- ❑ **Should we start working towards starting a new project on multiple configuration domains?**

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