

# IEC/IEEE 60802 amendment brainstorming:

## IA-Controller – Cloud Solution – Configuration Domain

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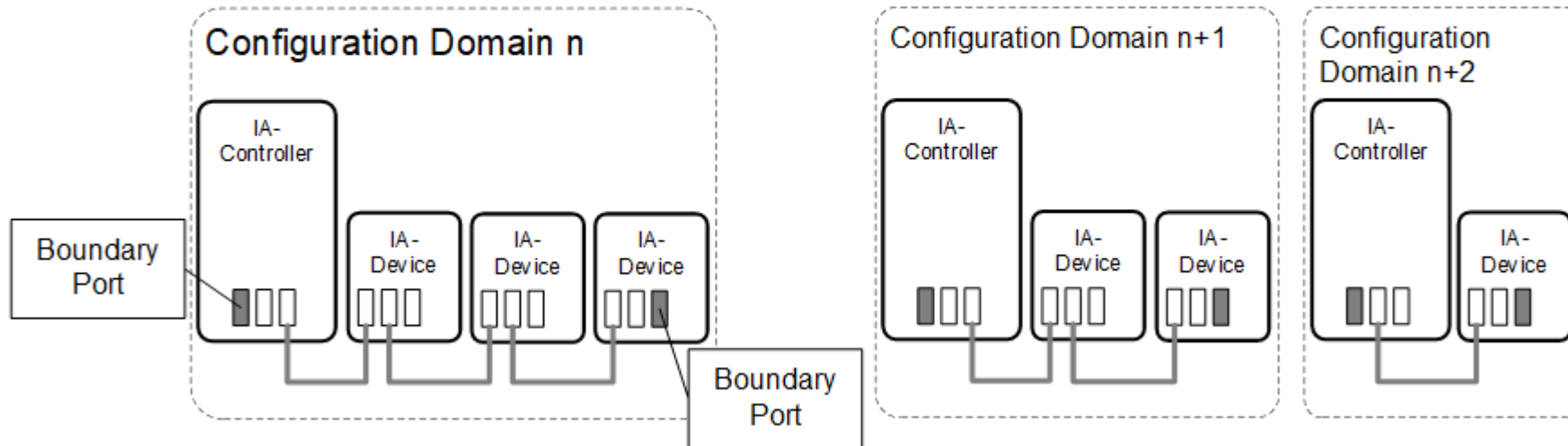
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## Simplified Standard Configuration - recap

IEC/IEEE 60802 ED1 defines the Configuration Domain for configurations at the Field Level.

OT / IT

Field Level



# IA-Controller – Cloud solutions – Problem statement

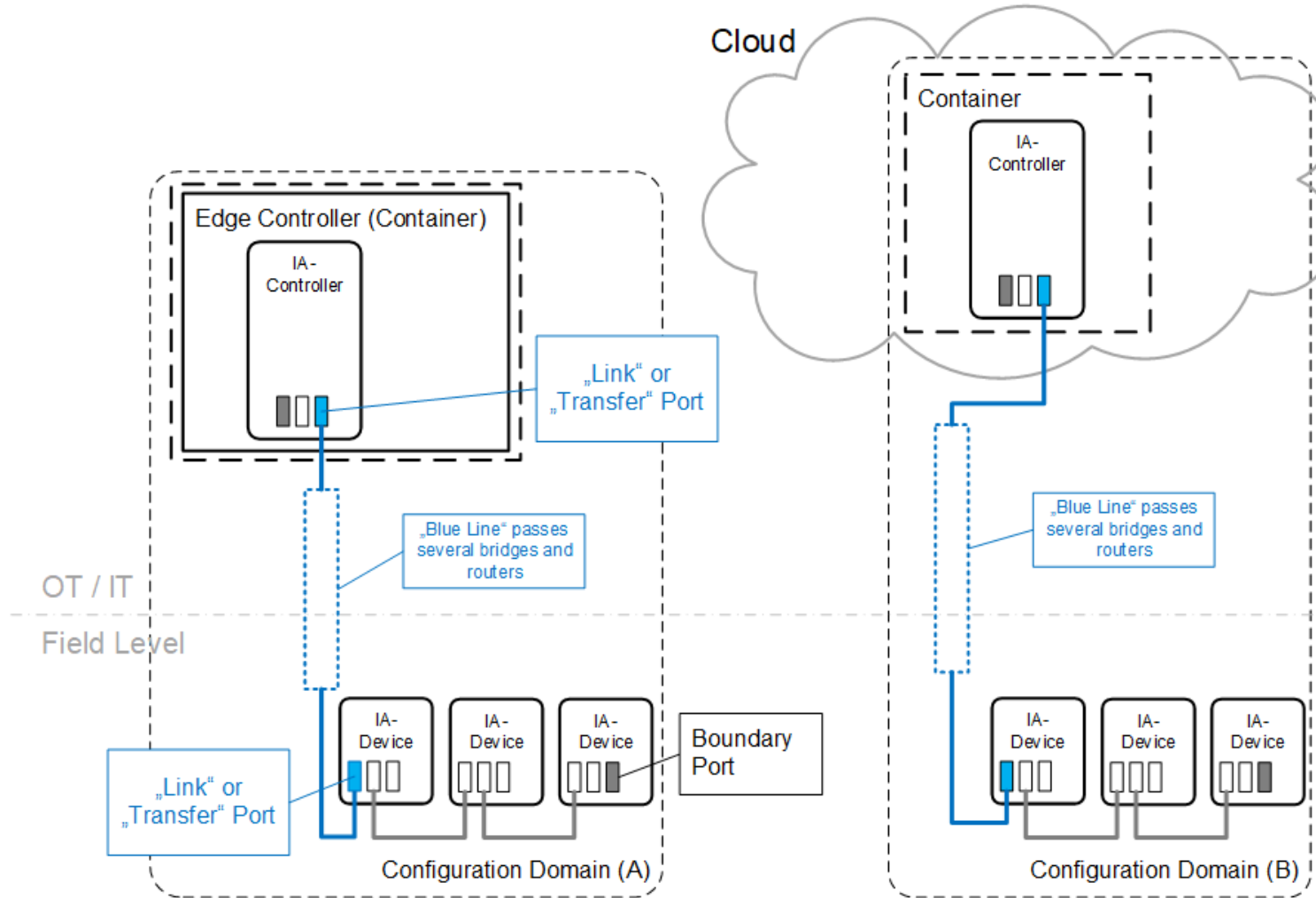


Figure shows **two configurations** (A) and (B). Based on different Cloud solution implementations.

- Configuration Domain (A): IA-Controller is part of an Edge device. Located at the OT/IT Level.
- Configuration Domain (B): IA-Controller runs in a Cloud. Somewhere in the world.

In both configuration the IA-Controller runs in a container and there is a “distance” – indicated with the “Blue Line” – between IA-Controller and IA-Devices. The “Blue Line” passes several bridges and routers which are not part of the Configuration Domain.

- The “Blue Line” needs a Quality of Service.
- How to establish the Blue Line?

# IA-Controller – Cloud solutions – Using ITU-T Y.1731

„Operation, administration and maintenance (OAM) functions and mechanisms for Ethernet-based networks ”

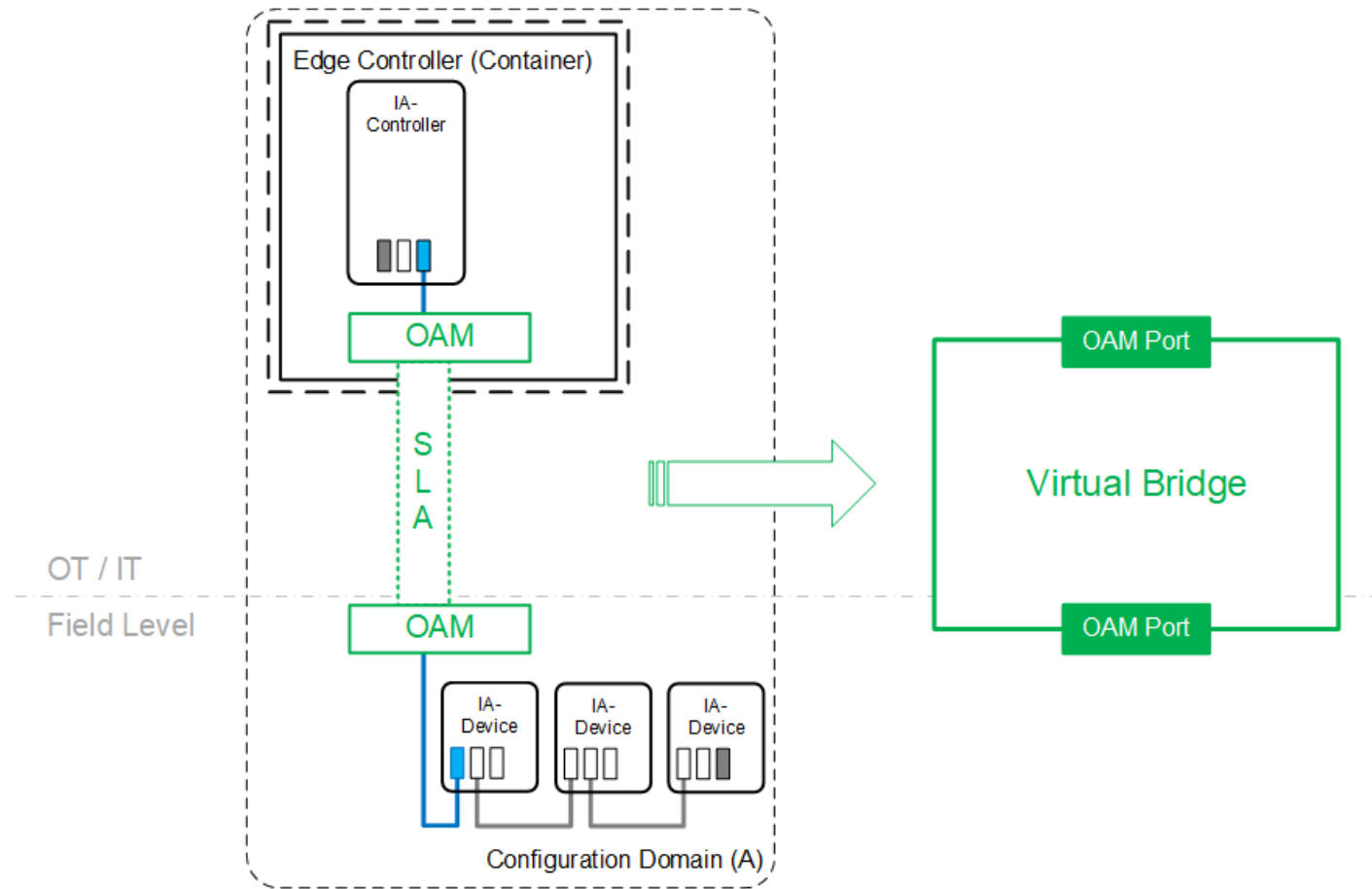


Figure shows Configuration A from previous slide with elements from Y.1731.

Reference: <https://www.itu.int/rec/T-REC-Y.1731/en>

OAM ... **O**peration, **A**dministration and **M**aintenance

SLA ... **S**ervice **L**evel **A**greement

- The SLA separates the responsibilities of Field Level IT and OT.
- OT responds with Min/Max Delay.
- Field Level IT gets one Configuration Domain and set a tunnel regarding Min/Max Delay to a working configuration.

- Define OAM Port and Virtual Bridge
- Discuss Time sync

Questions, Discussion, ...

Thank you