MSTP YANG

based on IEEE8021-MSTP-MIB

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IEEE8021-MSTP-MIB: Structure

IEEE8021-MSTP-MIB includes 7 tables with >50 objects :

- ieee8021MstpConfigIdTable - one row per Bridge component
- ieee8021MstpCistTable - one row per Bridge component
- ieee8021MstpCistPortTable - one row per Bridge component and Port

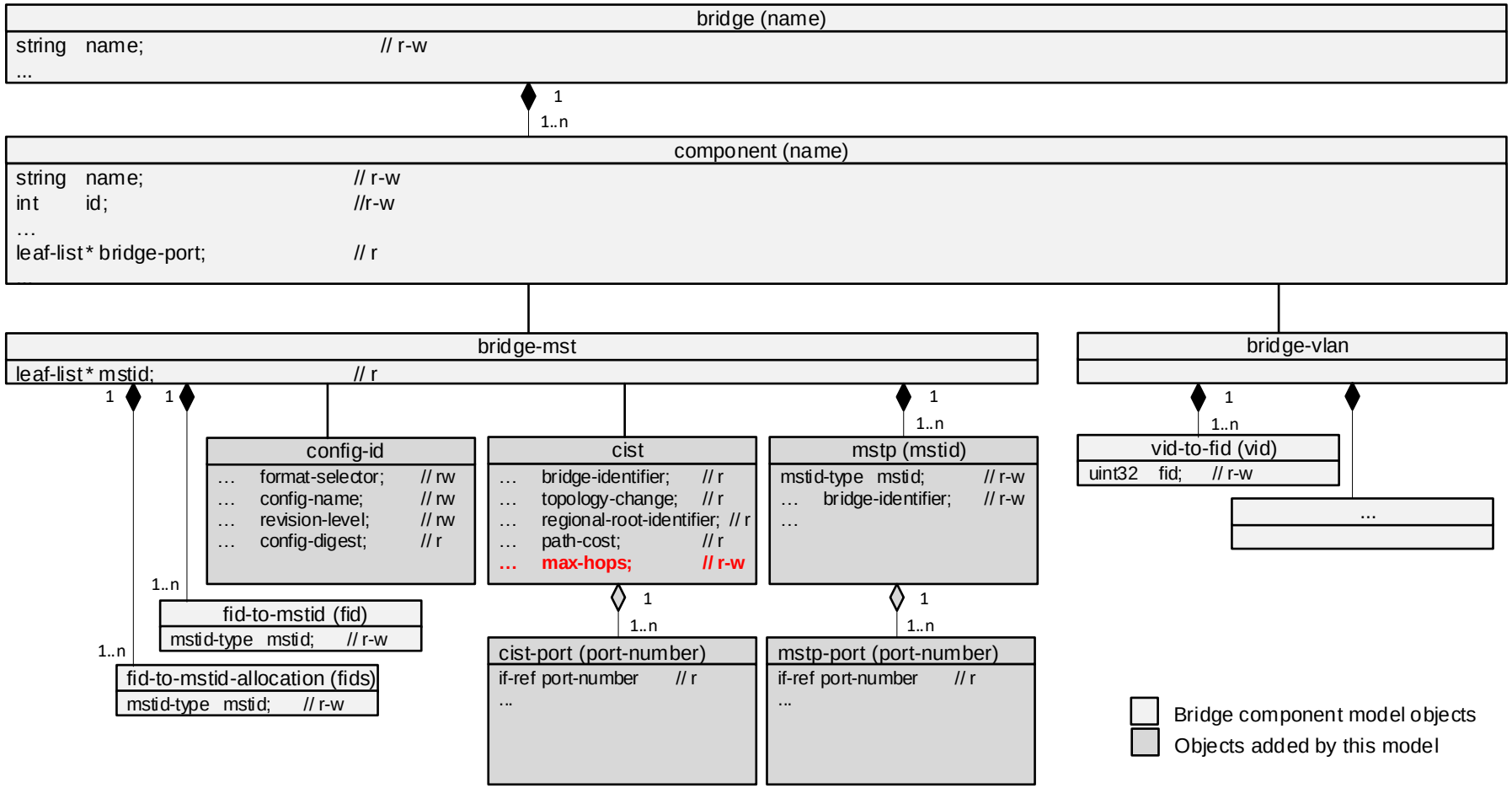
+ ieee8021MstpCistPortExtensionTable - one row per Bridge component and Port

- ieee8021MstpTable - one row per Bridge component and MST-ID
- ieee8021MstpPortTable: - one row per Bridge component and MST-ID and Port

- ieee8021MstpFidToMstiV2Table - already covered by ieee802-dot1q-bridge:fid-to-mstid
- ieee8021MstpVlanV2Table - already covered by ieee802-dot1q-bridge:vid-to-fid/fid-to-mstid

IEEE8021 MSTP-YANG

as Augmentation of the Bridge Component YANG Model



IEEE8021 MSTP-YANG
Requirement from IEC/IEEE 60802

Max Hops permitted range in IEEE 802.1Q-2022

- *Defined in Table 13-5 — Timer and related parameter values: (6..40).*
- *Included in IEEE8021-MSTP-MIB: ieee8021MstpCistMaxHops - Integer32 (6..40).*
- *Used in 13.26.4 as BridgeTimes component: ”This parameter value is determined only by management.“*
- No explanation or justification for the upper limit of 40 found

BUT:

IEC/IEEE 60802 requires support of at least 64/100 hops in a configuration domain.

See also:

- https://www.ieee802.org/1/files/public/docs2023/60802-dorr-MSTP-Config-0123-v01.pdf
- https://www.ieee802.org/1/files/public/docs2020/60802-dorr-MST-0820-v01.pdf

Thank You

Questions?