

DRAFT YANG 802.1ABcu

IEEE 802.1 Interim Pittsburgh

May, 2018



Introduction

- Draft model follows IEEE Std 802.1AB-2016
- Initial draft of ABcu is available
- YANG file available on Github
- Review of Sections and work to be done in the document
- Example Diagrams

Draft ABcu



- Draft 0.1: <http://www.ieee802.org/1/files/private/cu-drafts/d0/802-1ABcu-d0-1.pdf>
 - Addressed the textual change associated with a number issues related to the reliance of the 802.1Q protocol being tightly coupled to SNMP. Providing text at beginning of document that where the term MIB is used, MIB or YANG model is meant.
 - TAddress and TDomain discussion reaching a conclusion (but not yet included in document)
- YANG file: <https://github.com/YangModels/yang/blob/master/standard/ieee/802.1/draft/ieee802-dot1ab-ldp.yang>
- Further work
- Maintaining alignment with .1Qcp and .1Qcx
- A review of the ABcu YANG for naming conventions and formatting following the guidance of .1Qcx is TBD

Draft ABcu Clauses



- Usual front matter: Clause 1 – 5
- Clause 6 Principles of Operations
 - changes to include YANG
- Clause 7 LLDPDU transmission, reception, and addressing
 - no changes expected
- Clause 8 LLDPDU and TLV formats
 - Based on understanding of the LLDP standard and the use of SNMP OIDs, it is possible to write the YANG module so that the OIDs from SNMP can be mapped. So neither the base LLDP-2016 standard (other than the updates adding the YANG module) nor the .1Q-2018 standard need to change.

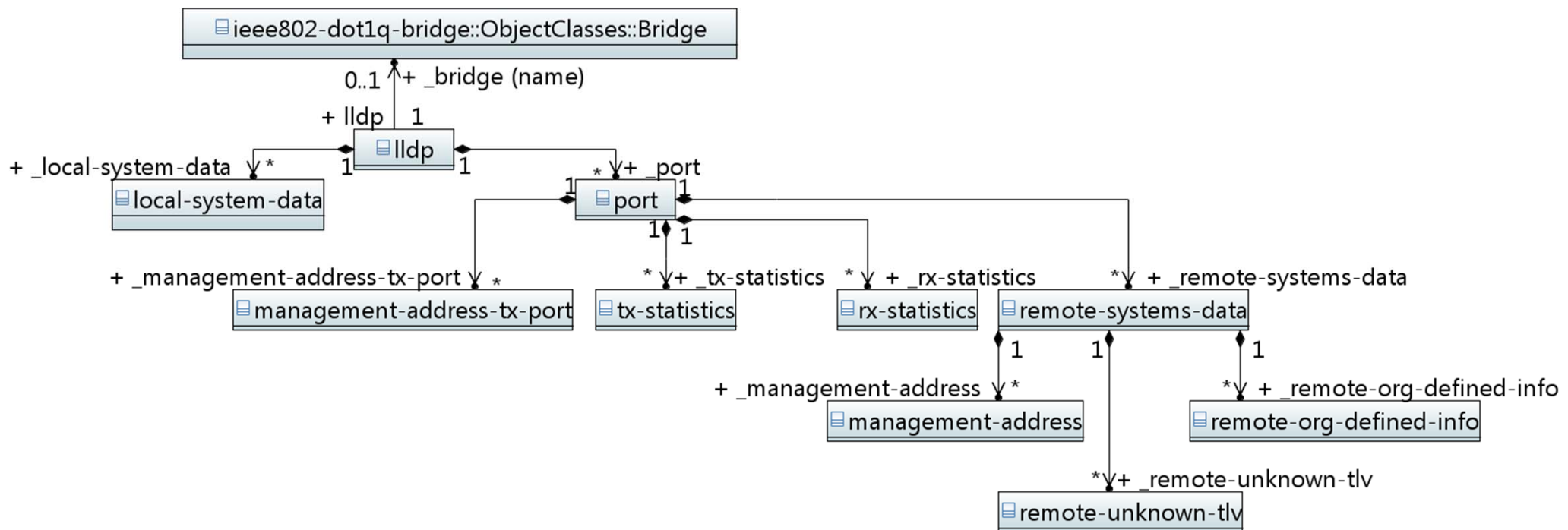
Draft ABcu Clauses continued



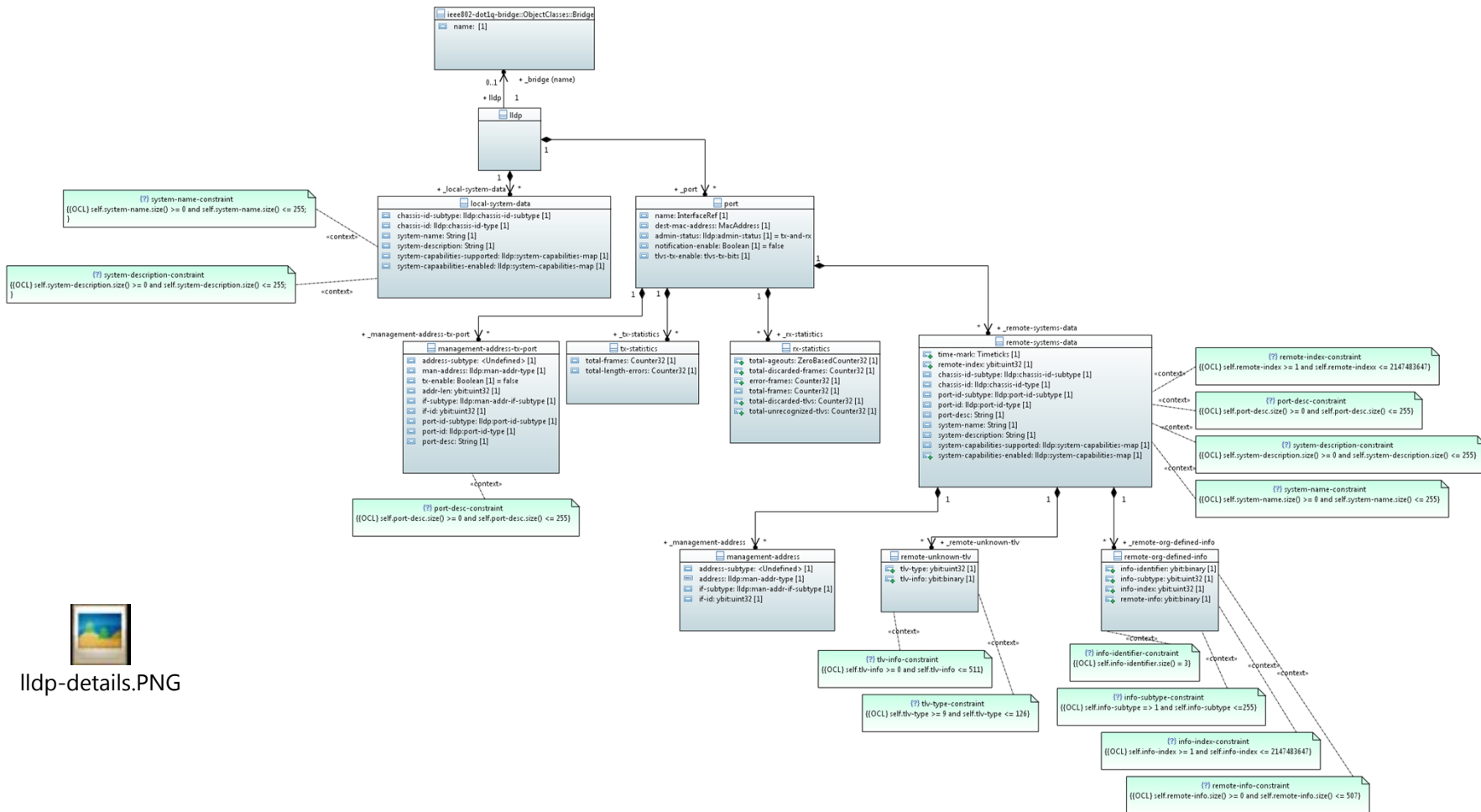
- Clause 9 LLDP agent operation
 - Add short description related to TAddress and TDomain mapping
- Clause 10 LLDP management
 - Add short description related to TAddress and TDomain mapping
- Clause 11 LLDP MIB definitions
 - No changes
- Clause 12 LLDP YANG definitions
 - New Clause for YANG

Example High Level Diagram

- Utilizing UML to help explain structure of the LLDP YANG
- Using Eclipse Papyrus

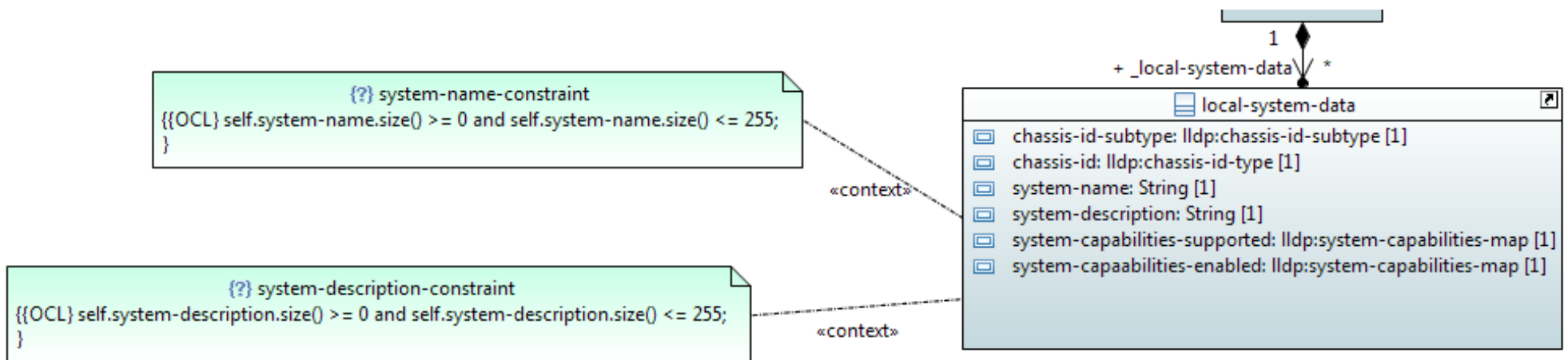


Detailed Diagram



Ildp-details.PNG

Local System Data



Remote System Data

