DRAFT YANG 802.1ABcu

IEEE 802.1 Plenary

November, 2018

Introduction

- Draft model follows IEEE Std 802.1AB-2016
- Updated 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

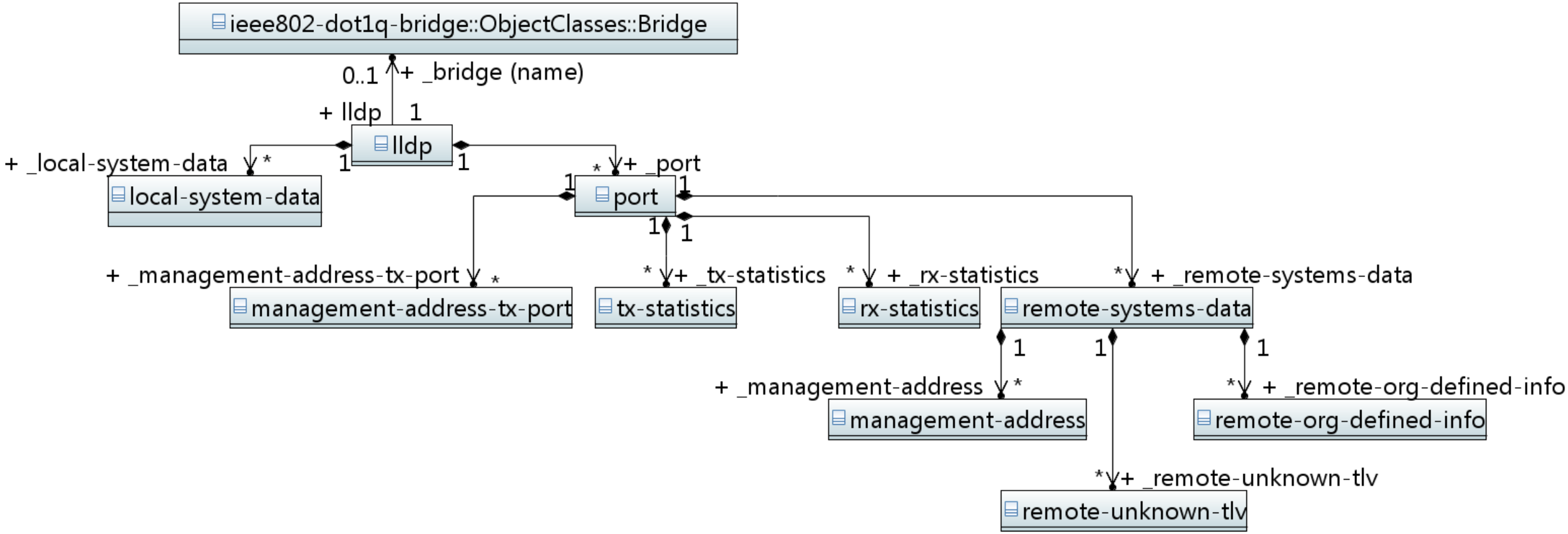
- Draft 0.6: http://www.ieee802.org/1/files/private/cu-drafts/d0/802-1ABcu-d0-6.pdf
  - Split the LLDP Types into a separate file

- YANG files:
  - https://github.com/YangModels/yang/blob/master/standard/ieee/802.1/draft/ieee802-dot1ab-lldp.yang
  - https://github.com/YangModels/yang/blob/master/standard/ieee/802.1/draft/ieee802-dot1ab-types.yang

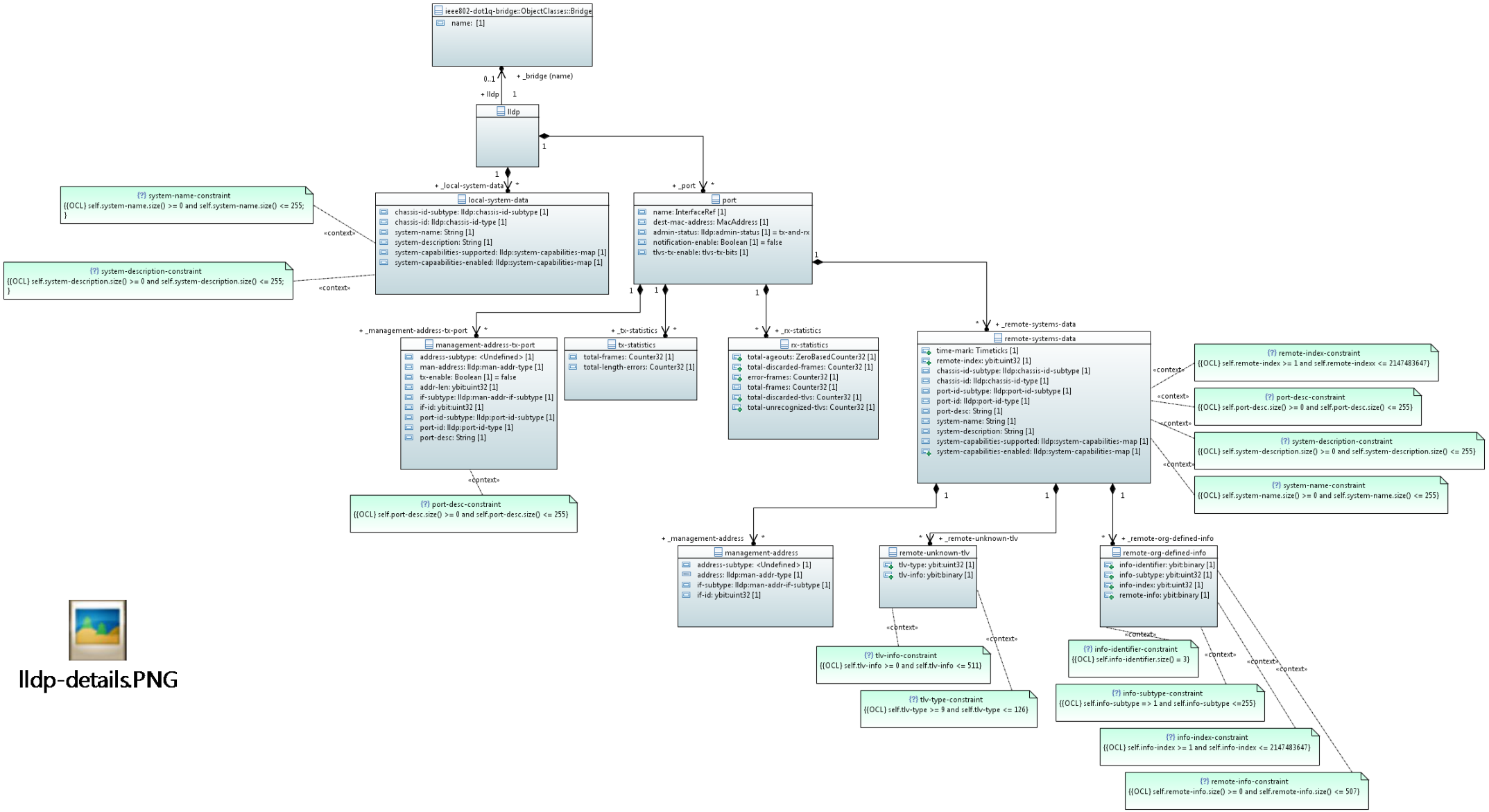
- Further work in Abcu
  - Need to add in UML describing the relationships
  - See next slides for examples

Example High Level Diagram

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

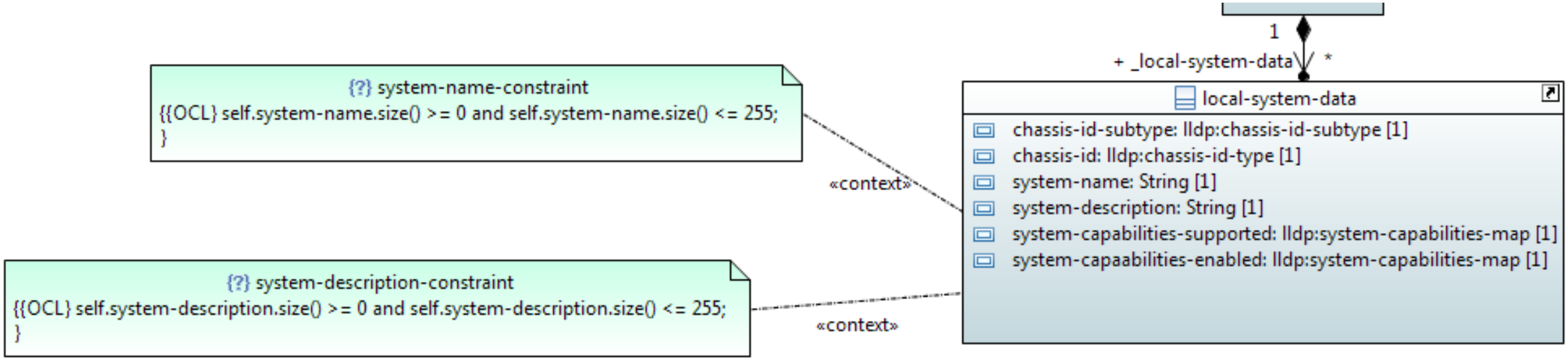


Detailed Diagram

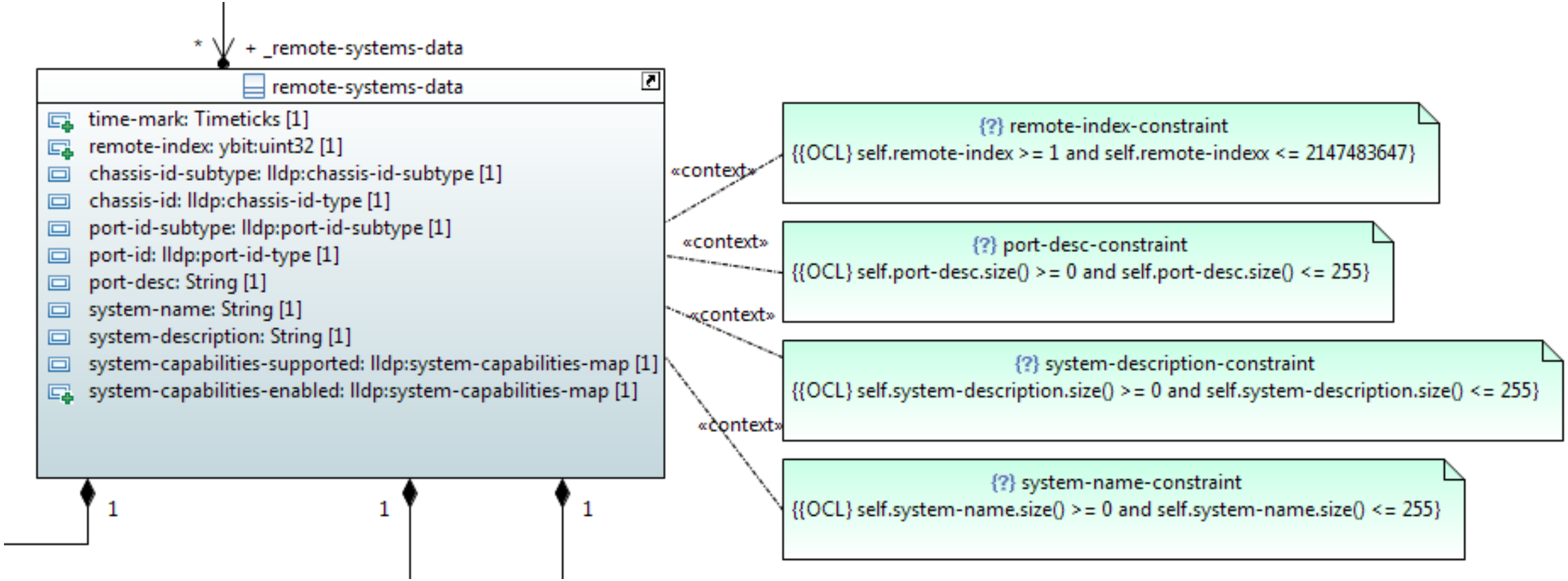


lldp-details.PNG

Local System Data



Remote System Data



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
  - No changes
- Clause 10 LLDP management
  - No changes
- Clause 11 LLDP MIB definitions
  - No changes
- Clause 12 LLDP YANG definitions
  - New Clause for YANG