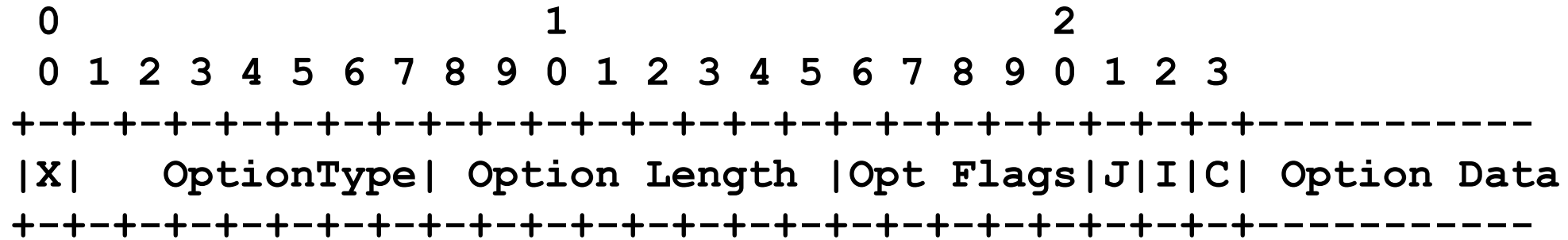


MOPex & CAP updates

RPL Extended Control Options



Currently, 0x80 to 0xFF reserved for RPL Extended Control Options

Another point: Set aside bigger range for ext control option from 0x40 to 0xff

Note: Extended Option can still serve as regular Options with an extra byte.

Capabilities Query/Response

- A node should be able to query the list of supported capabilities
- A node should be able to query specific capabilities details
- A set of capabilities to respond may exceed MTU. Thus a node should be able to send caps in multiple response messages.

CAPQ

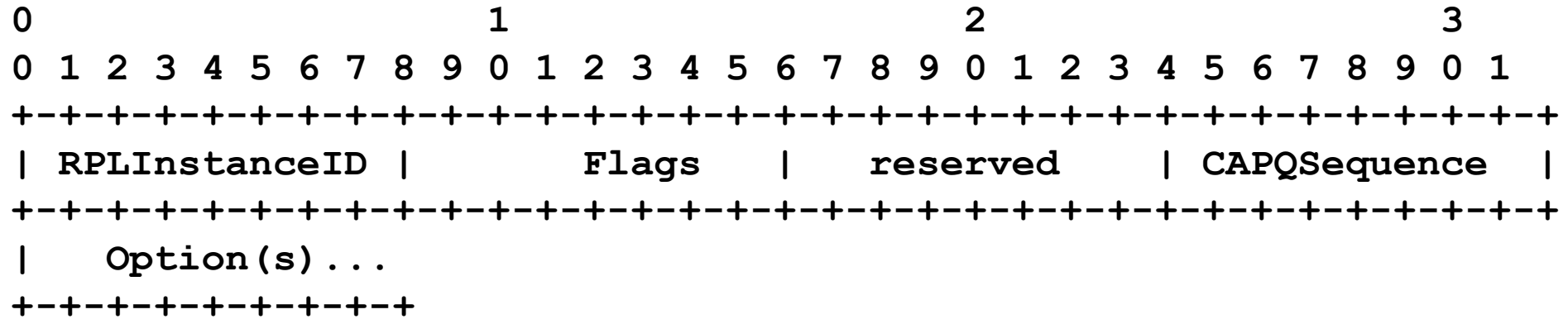


Figure 3: CAPQ base object

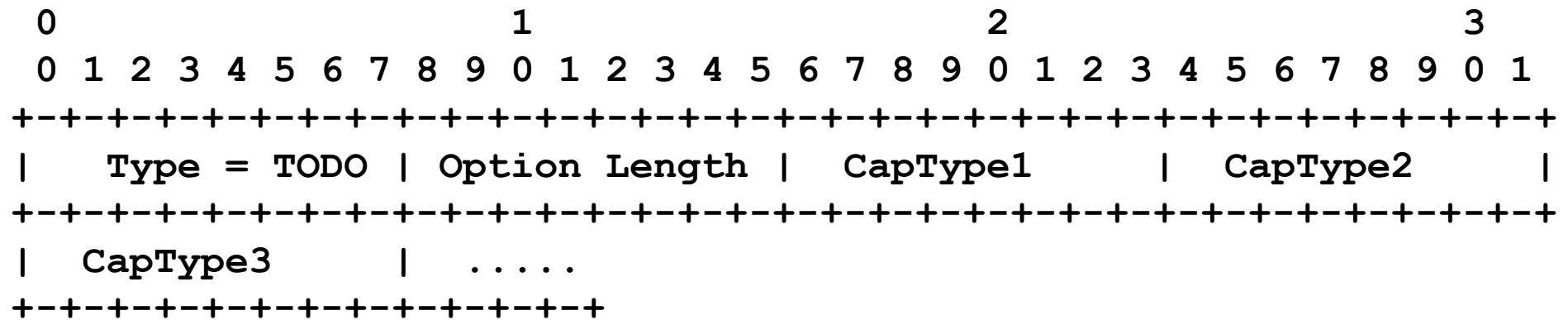


Figure 4: Capability Type List Control Option

CAPS response to CAPQ

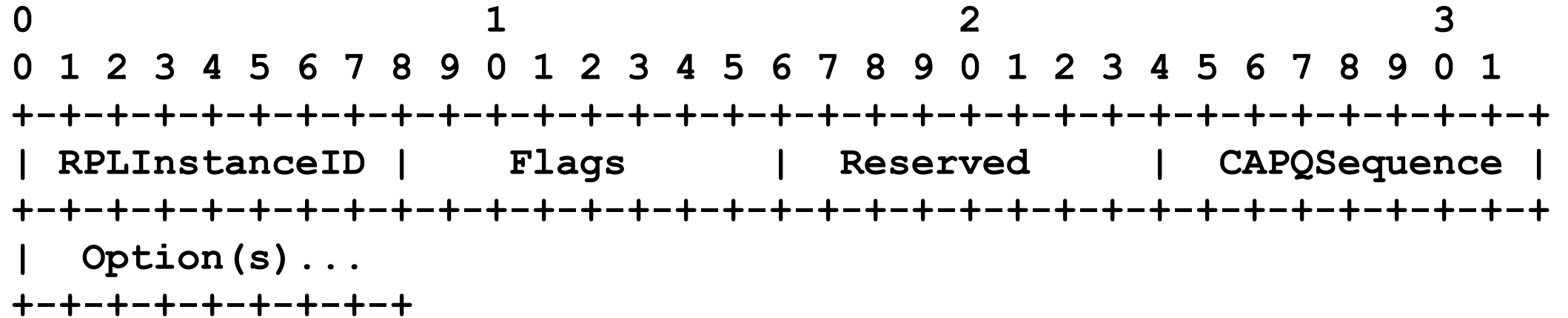


Figure 5: CAPS base object

The Options would be set of capabilities that are requested.
CAPS can only be sent in response to CAPQ.

Query supported Capability List

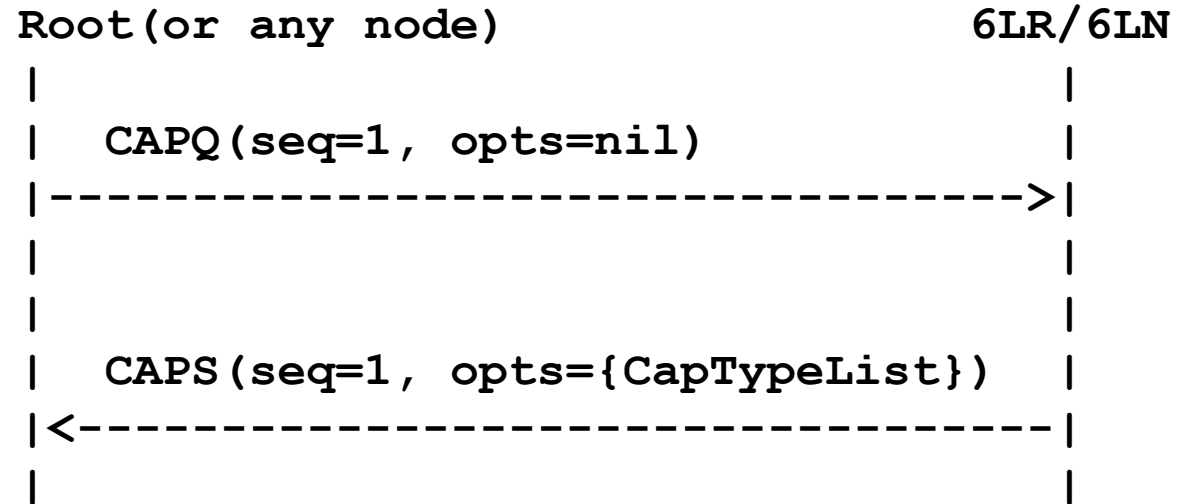


Figure 8: Query supported Cap Types

Query specific capability list

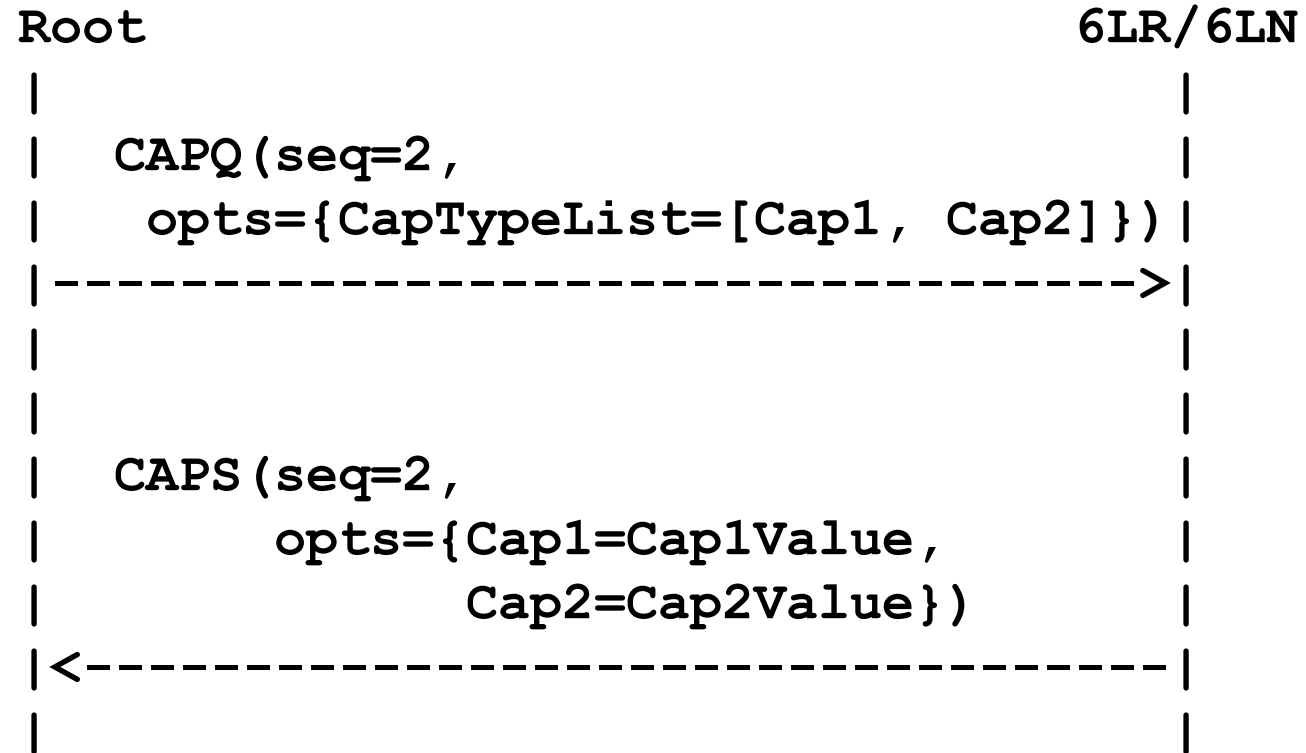
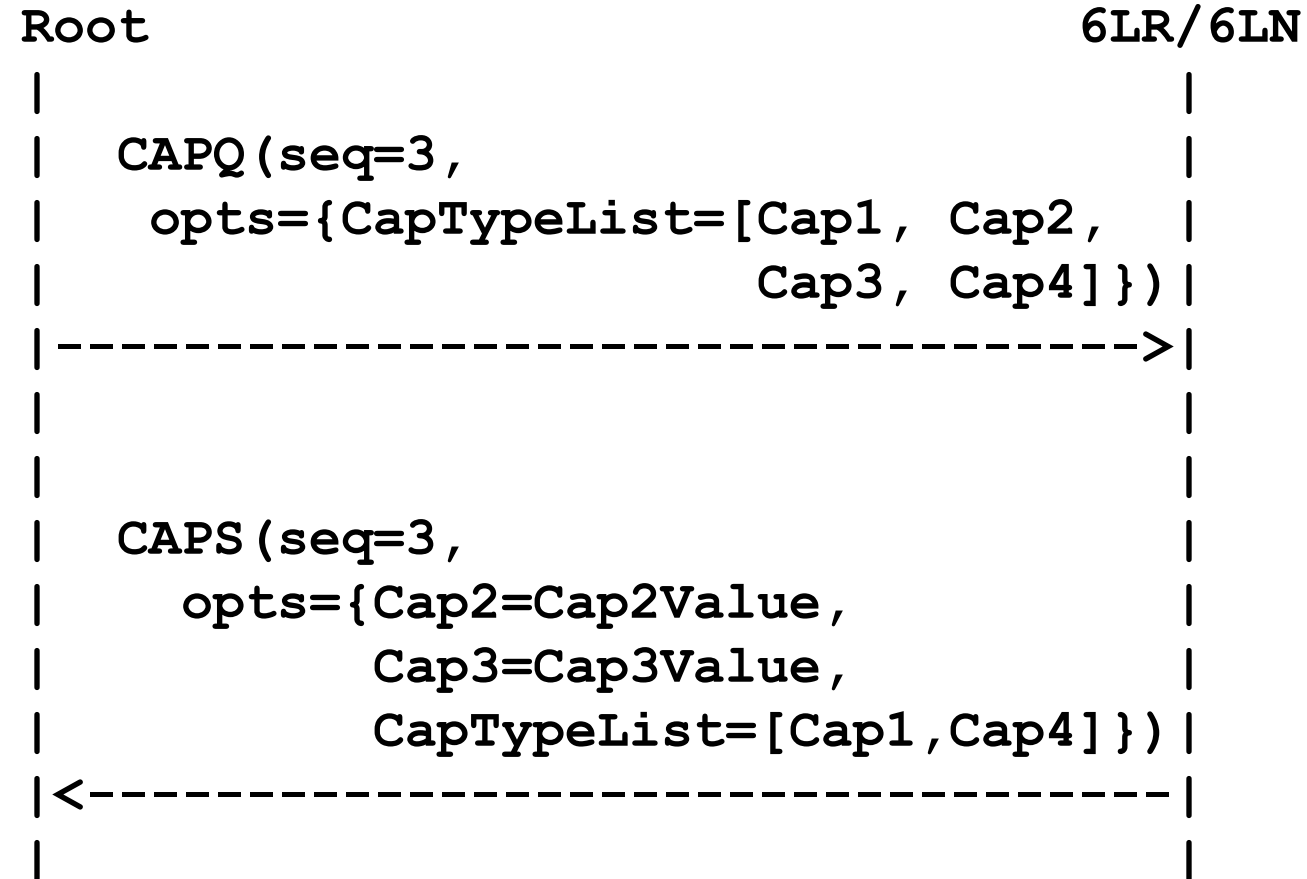


Figure 9: Query specific Cap Set

Query response with partial set



Partial Capability Set handshake