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

Root (or any node) 6LR/6LN

<table>
<thead>
<tr>
<th>CAPQ(seq=1, opts=nil)</th>
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<tbody>
<tr>
<td>&lt;-------------------------</td>
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<table>
<thead>
<tr>
<th>CAPS(seq=1, opts={CapTypeList})</th>
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<td>&lt;-------------------------------</td>
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</table>

Figure 8: Query supported Cap Types
Query specific capability list

Figure 9: Query specific Cap Set
Partial Capability Set handshake