

=== Every time we receive a new path, we update the power, cost & path table ===

---- Path Listing Table ----
(Unlimited Paths to a Node)

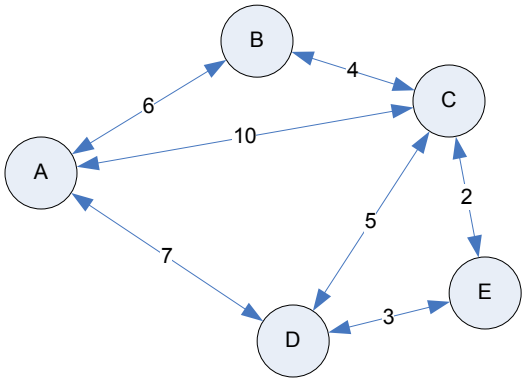
| Dest | Path |
|------|---------------------------|
| A | Null (Us) |
| B | |
| C | |
| D | |
| E | A-D-E: (1*7+4*3=19) |
| E | A-B-C-E: (1*6+6*4+5*2=30) |

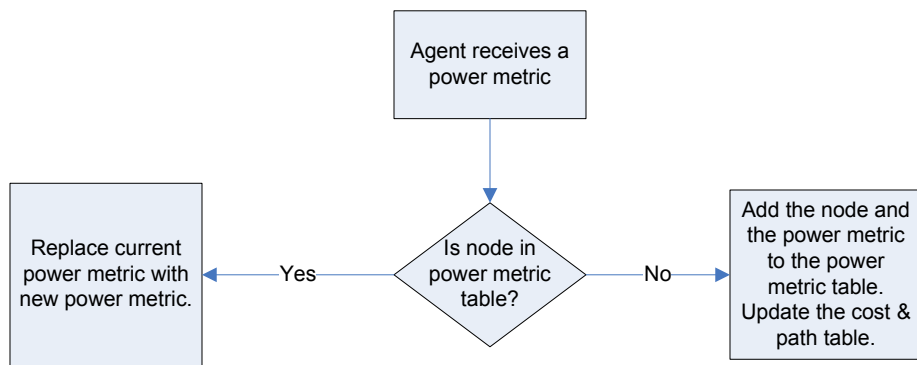
---- Power metric Table ---

| Node | Battery Metric |
|------|----------------|
| A | 1 |
| B | 6 |
| C | 5 |
| D | 4 |
| E | 1 |

---- Transmission Cost ----
(Based on distance between any two nodes)

| Hop | Cost | A | B | C | D | E |
|-----|------|---|---|----|---|---|
| A | Ø | Ø | 6 | 10 | 7 | ∞ |
| B | | | Ø | 4 | ∞ | ∞ |
| C | | | | Ø | 5 | 2 |
| D | | | | | Ø | 3 |
| E | | | | | | Ø |

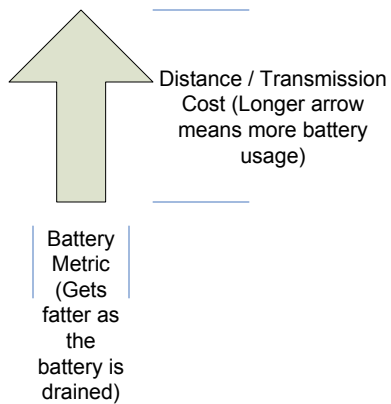




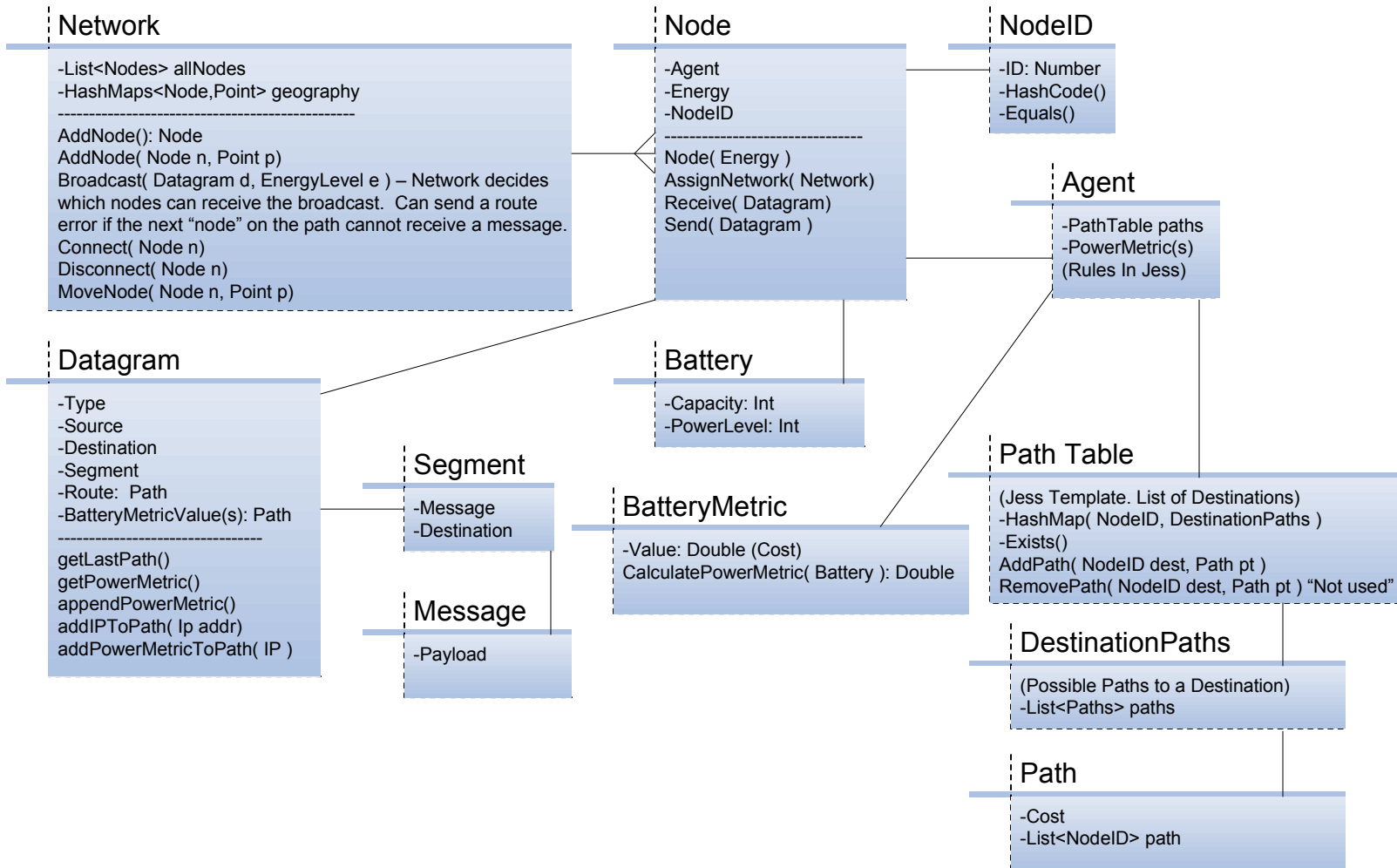
Evaluating Power Metric

| Battery | Power Metric |
|-----------|--------------|
| 100 - 90% | 1 |
| 89 - 70% | 2 |
| 69 - 50% | 3 |
| 49 - 25% | 4 |
| 24 - 0% | 5 |

We want to use a system with a Lower Power Metric more often. As a battery on a system gets used up, we want to use it less.



Energy Aware Routing Protocol UML



A node connects
to the network



Node and Network
does nothing

