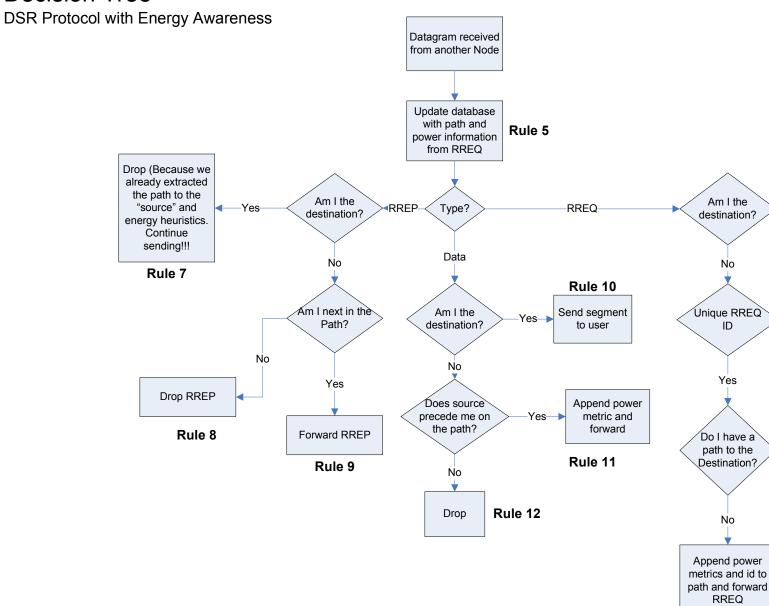
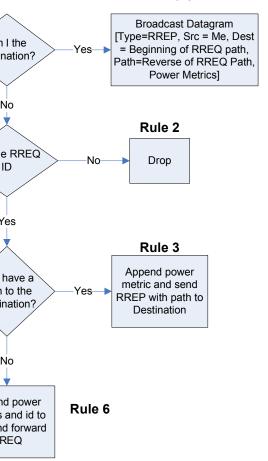
New Segment
(Destination and
Message) from
User

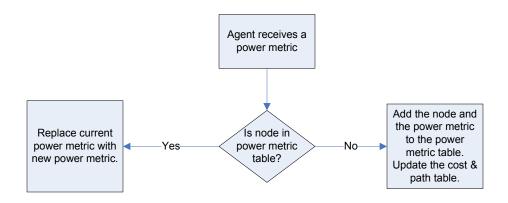
Create datagram
[Type=Data, Src, Dest,
Path, Segment, Power
Metric]
Broadcast Datagram

Decision Tree



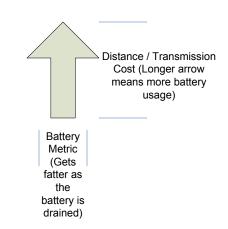
Rule 1





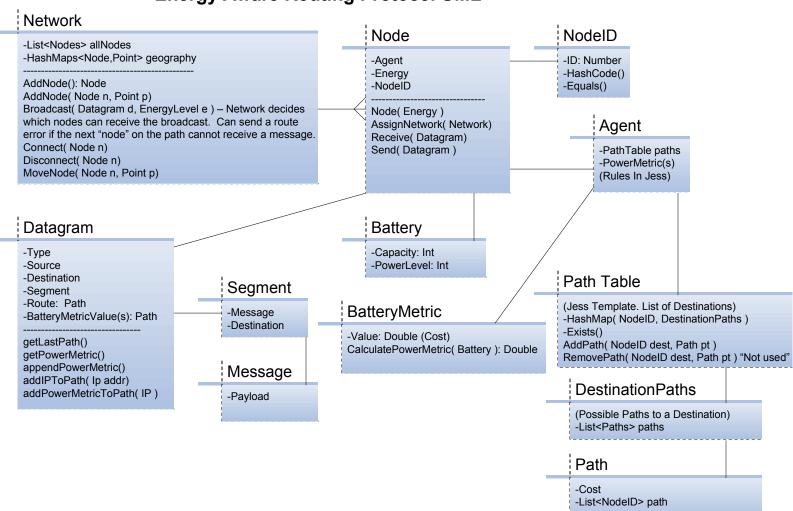
Evaluating Power Metric					
Battery	Power Metric				
100 - 90%	1				
89 – 70%	2				
69 – 50%	3				
49 – 25%	4				
24 – 0%	5				

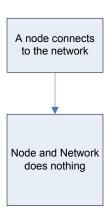
We want to use a system with a Lower Power Metric more often. As a battery on a system gets used up, we want to use it less.

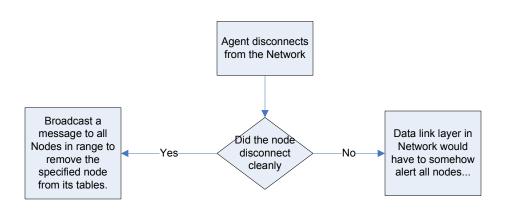


=== Every time we receive a new path, we update the power, cost & path table === ---- Path Listing Table ---- Potentially updated when we read a path in the datagram (Unlimited Paths to a Node) Path Dest Null (Us) Α С В С D Ε A-D-E: (1*7+4*3=19) Ε A-B-C-E: (1*6+6*4+5*2=30) ---- Battery Metric Table --- Updated when ever we receive a Datagram Node **Battery Metric** D 1 6 В С 5 4 D Е 1 ---- Transmission Cost ----(Based on distance between any two nodes) Cost Hop Α В С D Ε Ø 6 Α 10 7 ∞ В Ø 4 ∞ ∞ PathSet<Path>: С Ø 5 2 All Path Options D 3 Ø Е Ø 1 PathTable <NodeID,PathSet> : Link 2 PathArray<NodeID> : NodeID a list of paths with a destination form a sequential path 3 Ε NodeID PathSet A: Paths to Destination A A: int 4 NodelD PathSet B: Paths to Destination B 5 B: int 6 NodeID PathSet C: Paths to Destination E C: int

Energy Aware Routing Protocol UML







Datagram

Туре	Source	Destination	Segment	Path	Transmission Cost(s)	Battery Metric(s)
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