What is new?

- Reorganized document to more clearly state what is being specified
- Added new encoding types
  - 16, 32 and 64 bit exponential metric representations taken from IEEE standards
- Expanded IANA considerations section
  - Added definitions of namespaces for future allocations using this document
Metric routing requirements

- Metric definition
  - What is the meaning of a metric? What cost value does it represent?
  - How is a metric set/found/calculated?

- Metric dissemination
  - How is a metric encoded?

- Metric usage
  - How does a protocol use a metric?

Draft-dean-manet-metricTLV specifies
What does this draft specify?

• What is the meaning of a metric?
  • Defines “metric” and “cost value”
    • Cost value is defined as the unit to be represented
    • Metric is the on the wire representation of a cost value
  • Defines various metric classes to give some context regardless of the actual cost value being represented
    • Node
    • Inbound
    • Outbound
    • Bi-Directional
What does this draft specify? Cont.

- How is a metric encoded?
  - Defines a common way to encode metrics
    - Flat number spaces
    - Exponential number spaces
  - Assigns TLV extended type values to namespaces for future allocation
    - 2 namespaces for message TLVs
      - 128 possible assignments for each namespace
    - 8 namespaces for address block TLVs
      - 32 possible assignments for each namespace
Namespaces

- Packetbb specifies a flat TLV space with extended type fields.
- This document condenses future TLV type assignment by using extended type field to group common TLV types.
- Differing extended types give some context/meaning about the metric being conveyed.
TLV type assignments example

Current TLV assignment:
- OLSRv2 Link
- SMF RtrPri
- Time TLV
- Metric 1
- DYMO TLV
- Metric 2
- Metric 58

Using Metric TLV document:
- OLSRv2 Link
- SMF Alg.
- Time TLV
- Metric TLV
- Metric 1
- Metric 5
- Metric 2
- Metric 16
- Metric 9
- Metric 32
- Metric 7
- Metric 8

- addrBlkLin:Node
- addrBlkLin:Inbound
- addrBlkLin:Outbound
- addrBlkLin:Bidirectional
- addrBlkExp:Node
- addrBlkExp:Inbound
- addrBlkExp:Outbound
- addrBlkExp:Bidirectional
Is this draft useful?

- Informational?
- Best common practices?
- Standards?