Sensor Network Routing Requirements of Structural Health Monitoring

draft-manner-roll-shm-requirements-00

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Purpose of the draft

1. Describe in detail an important use case, SHM
   – The data transmission model, structure of the network and its operation are critical features affecting the design of the routing infrastructure

2. Highlight requirements and <u>non-goals</u>
   – It is easy to write down requirements
   – Yet, we can't possibly meet all emerging requirements
   – Need to see what is important, and what is <u>not</u>
   – Where can we cut the corners?

Non-goals of SHM

- Relatively small network

  - Tens, perhaps a hundred, nodes

- Initial bootstrap phase can take long

  - The network will operate for years, the initial set up time is not a concern, it can take even days

- No physical mobility of nodes

  - Nodes may die out and new ones put in place, but nodes will not physically move here and there