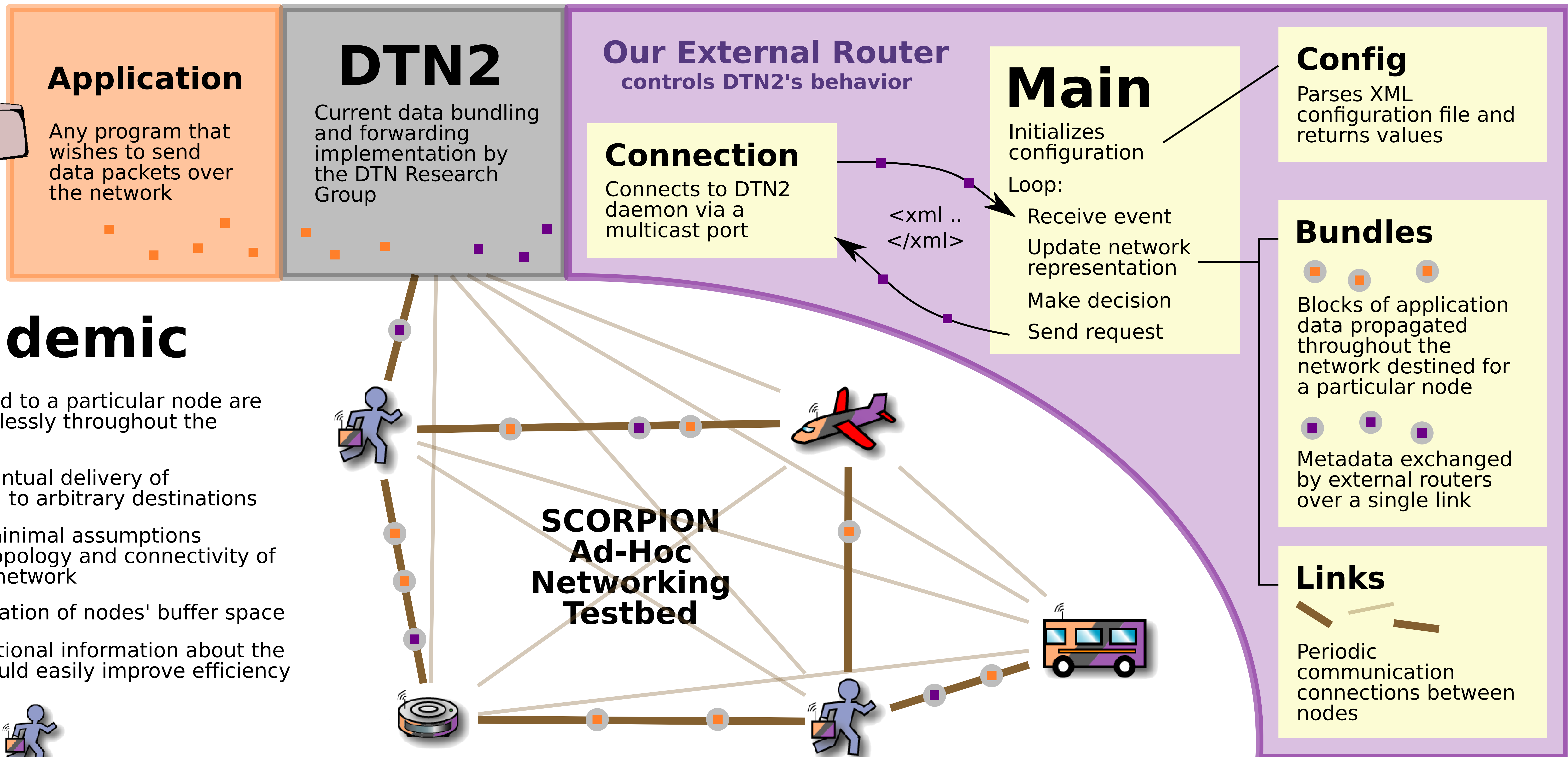


Epidemic Routing Protocol for Delay Tolerant Networks

Peter LoBue and Katarina Miller

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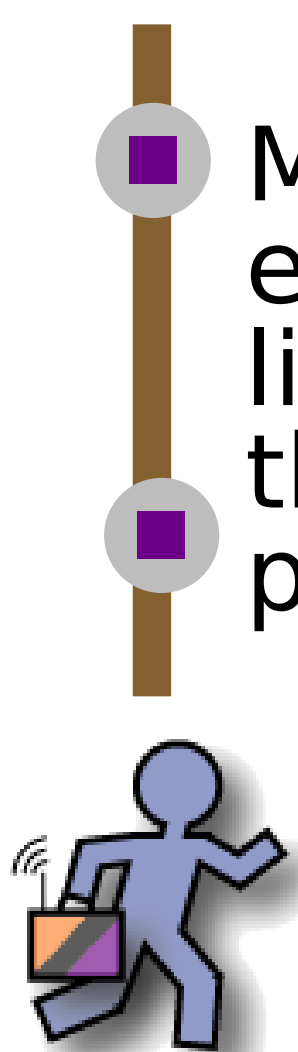
Epidemic

Bundles destined to a particular node are propagated aimlessly throughout the entire network.

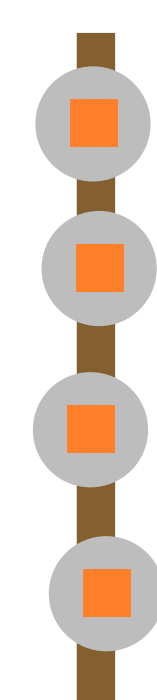
- + Ensures the eventual delivery of application data to arbitrary destinations
- + Requires only minimal assumptions regarding the topology and connectivity of the underlying network
- Disregards limitation of nodes' buffer space
- Disregards additional information about the network that could easily improve efficiency



Link becomes ready to transmit bundles



Metadata is exchanged: list of bundles the node possesses



Missing bundles are sent to node that lacks them

Potential Future Enhancement

Our router's features can be easily extended to investigate additional network characteristics.

Possible future variables:

Limit buffer space on nodes; reclaim space by adding acknowledgements of receipts so nodes can delete local copies of bundles

Allow bundles to be forwarded only a maximum number of times before waiting for destination node to come into contact

