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IPv6 over Networks of Resource-constrained Nodes (6lo)

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Charter for Working Group

6lo focuses on the work that facilitates IPv6 connectivity over constrained node networks with the characteristics of:
* limited power, memory and processing resources
* hard upper bounds on state, code space and processing cycles
* optimization of energy and network bandwidth usage
* lack of some layer 2 services like complete device connectivity and broadcast/multicast

Specifically, 6lo will work on:

1. IPv6-over-foo adaptation layer specifications using 6LoWPAN technologies (RFC4944, RFC6282, RFC6775) for link layer technologies of interest in constrained node networks

2. Information and data models (e.g., MIB modules) for these adaptation layers for basic monitoring and troubleshooting.

3. Specifications, such as low-complexity header compression, that are applicable to more than one adaptation layer specification

4. Maintenance and informational documents required for the existing IETF specifications in this space.

Only specifications targeting constrained node networks are in scope. 6lo will work closely with the 6man working group, which will continue to work on IP-over-foo documents outside the constrained node network space and will continue to be the focal point for IPv6 maintenance. For adaptation layer specifications that do not have implications on IPv6 architecture, 6man will be notified about 6lo's working group last call. Specifications that might have such an impact (e.g., by using IPv6 addresses in a specific way or by introducing new ND options or by exposing to IPv6 a link model different from either Ethernet or 6lowpan) will be closely coordinated with 6man, and/or specific parts will be fanned out to 6man documents. Beyond 6man, 6lo will also coordinate with LWIG and INTAREA.

6lo works on small, focused pieces of work, but does not take on larger cross-layer efforts. The working group will continue to reuse existing protocols and mechanisms whenever reasonable and possible.

Security and management work that is not specific to the link layers being worked on is out of scope. Work related to routing is out of scope. 6lo will coordinate closely with the working groups in other areas that focus on constrained node networks, such as ROLL (RTG) and CoRE (APP).

Milestones

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Working Groups
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Drafts & RFCs
Document search:

Streams:
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- Session Requests

Other Documents
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Group

Name:	IPv6 over Networks of Resource-constrained Nodes
Acronym:	6lo
Area:	Internet Area (int)
State:	Active
Charter:	charter-ietf-6lo-01 (Approved)

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