OSPF v2/3 System Name

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Overview

• Define mechanism for OSPF routers to learn about symbolic hostnames
• Much akin to IS-S dynamic hostname exchange mechanism - RFC 2763
• Presented idea at last IETF, have since submitted:
  – draft-venkata-ospf-dynamic-hostname-02.txt
  – Co-authors: Pignataro, Venkata & Harwani
Motivators

- Current mechanism, DNS, relies on IP connectivity - may not be able to resolve if reachability problems
- May want system name different than that in DNS, or new routers not yet in DNS
- DNS resolution introduces extra load, could be particularly problematic in times of problem resolution
- RI LSA (4970) is standardized, offers convenient place to advertise system name
- Move to IPv6 will result in more difficult human parsing of IP addresses, as 32-bit router-id is more of an opaque unique identifier than an IPv4 address.
Feedback To Date

• Little but good feedback
  – LSA Flooding scope needs defined
    • area local
    • AS-wide
  – Text encoding needs to be clarified
    • US-ASCII or UTF-8? RFC 3629 "globally/widely visible name” as defined in RFC 2277 suggests US-ASCII
    • Welcome feedback here

• Adding text to address both of the above
Document Status

- Request to become working group document
- Progress Standards Track
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