

# ISIS Auto-Configuration

## (draft-liu-isis-auto-conf-01)

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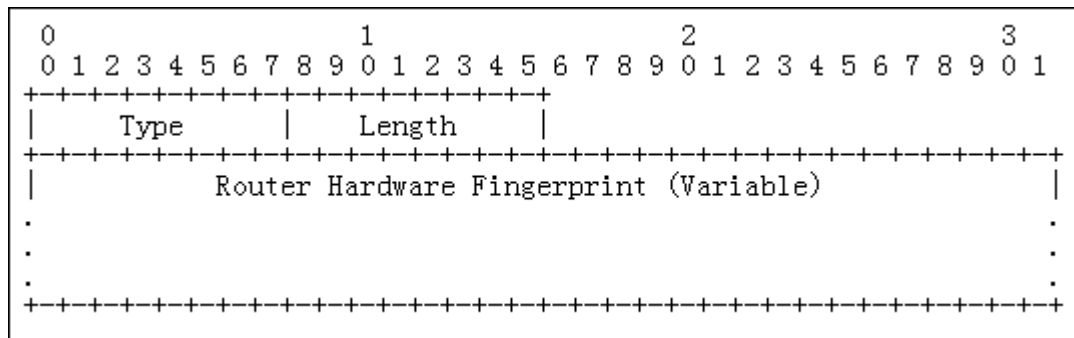
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# A brief review of the 00 version

- A Plug-N-Play mechanism for ISIS consisting of the following aspect:
  - default configuration
  - ISIS NET generation
  - NET duplication detection and resolution
    - Re-use the Router-Hardware-Fingerprint TLV defined in [OSPFv3-Autoconfig]



# Discussion in last meeting

- There were supportive feedbacks both in the mailing list and on the mic.
- The rationale of the proposed mechanism seemed to be agreed.
- Some suggestions to complete the design

# Main progress in the 01 version

- 3 new co-authors participated in this work. They had made great contribution to improve the draft.
- A couple of new features were introduced (details in the following slide)
- A detailed NET duplication & resolution procedure was depicted
- Clearly specified the scope of the draft (as Section 2)
  - Designed for CPE used in small networks such as home networks, small enterprises .etc; sophisticated requirements of ISP networks are out of scope
  - Interaction with other IGP autoconf (e.g. OSPF-Autoconf) is out of scope
- Adjusted the draft structure & other editorial changes

# New features-1

- Added Authentication TLV (TLV10, [RFC5304]) in ISIS auto-conf messages
  - Using type 1 authentication mode (“Cleartext Password”)
  - The default password is specified as “isis-autoconf”
  - This is to avoid the auto-conf routers accidentally joining into an existing isis network which is not intended to be auto-configured
  - This feature is necessary because a low end CPE joining an existing IS-IS network might seriously break it or cause unnecessary management confusion.

## New features-2

- IS-IS auto-configuration routers SHOULD support wide metric (specified in TLV 22, [RFC5305])
  - Wide metric is a basic feature that we need to clearly state support of it
  - It is recommended that IS-IS auto-configuration routers use a high metric value (e.g. 1000000) as default in order to typically prefer the manually configured adjacencies rather than the auto-conf ones.

# Next Steps

- Adopted as a WG item?
- Perfect the technical details
- Improve the editorial aspect

Thank you!

Your comments would be appreciated much.

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