

# Flooding Scope PDUs

draft-ginsberg-isis-fs-lsp-01.txt

Les Ginsberg ([ginsberg@cisco.com](mailto:ginsberg@cisco.com))

Stefano Previdi ([sprevidi@cisco.com](mailto:sprevidi@cisco.com))

Yi Yang ([yiya@cisco.com](mailto:yiya@cisco.com))

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# V1 Changes

Only covering changes since V00 - more details at:

<http://tools.ietf.org/agenda/86/slides/slides-86-isis-0.pdf>

Introduced a priority bit for LSP flooding

# Overview

Introduce a new LSP with flooding scope encoded in the LSP header (also new CSNP/PSNP)

Minimize the use of limited PDU type space

Define new flooding scopes

LSPs for each scope are kept in a scope specific LSDB

**Not backwards compatible**

# FS-LSP

## Standard LSP Header

Intradomain Routing Protocol Discriminator			
Length Indicator			
Version/Protocol ID Extension			
ID Length			
R	R	R	PDU Type
Version			
Reserved			
Maximum Area Addresses			
PDU Length			
Remaining Lifetime			
LSP ID			
Sequence Number			
Checksum			
P	ATT	LSPDBOL	IS Type
VARIABLE LENGTH FIELDS			

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P | Scope (1 – 127)

Flooding Scope (8 bits)

Source ID	ID Length
Pseudonode ID	1 Octet
LSP Number	1 Octet

Standard Format

Source ID	ID Length
Extended LSP Number	2 Octets

Extended Format

P = 1 => Flood with High priority **NEW!!**

# Priority Flooding

Extended Format supports a much larger set of LSPs

It may be useful to identify those LSPs in the set which contain information of higher priority. ( $P = 1$ )

High priority LSPs SHOULD be flooded at a higher priority than LSPs with the  $P$  bit set to 0.

Unenforceable

# WG Item

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