

4th OLSR Interop / Workshop Ottawa, CA, 2008

<http://interop08.thomasclausen.org/>

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Interop'08

- Emphasized `packetbb`, as this is the document first in the line for the wg
- Get "as many interoperating packetbb implementations" as possible, rather than test the minimal necessary for all protocol components
- One day workshop, followed by two days of interoperability testing

Interop'08

- **Seven** different implementations of packetbb, **four** different OLSRv2 implementations:
 - Funkfeuer packetbb
 - NRL packetbb
 - JdS packetbb

 - CRC packetbb & NHDP & OLSRv2
 - Hitachi packetbb & NHDP & OLSRv2
 - JOLSRv2 packetbb & NHDP & OLSRv2
 - Niigata packetbb & NHDP & OLSRv2

Interoperability test procedure

- Tested all packetbb implementations against a list of "all" possible variations of packetbb
- Each implementation had to **parse (p)** correctly the given packets and also **generate (g)** the same packets

		Implementation						
		JOLSRv2	OLSRd2 (Funkfeuer)	NRL-pack- etbb	packetTT (JdS)	CRC	nOLSRv2	Hitachi
packetbb								
1)	empty packet	p/g	p		p/g	p		
	+ sequence number	p/g	p		p/g	p		
	+ empty TLV block	p/g	p		p/g	p		
	+ 1 TLV	p/g	p		p/g	p		
	+ second TLV with TLV type extension	p/g	p		p/g	p		
	TLV has value	p/g	p		p/g	p		
	set TLV extended length	p/g	p		p/g	p		
	+ empty IPv4 message	p/g	p		p/g	p		
	+ another message with orig address	p/g	p		p/g	p		
	set hop count	p/g	p		p/g	p		
	set hop limit	p/g	p		p/g	p		
	set sequence number	p/g	p		p/g	p		
	+ message Tlv block	p/g	p		p/g	p		
	+ another message with 1 message TLV	p/g	p		p/g	p		
	+ address block with 1 address	p/g	p		p/g	p		
	only mid with 0.0.0.0	p/g	p		p/g	p		
	only mid with 255.255.255.255	p/g	p		p/g	p		

Summary

- Completed with **four** completely tested and interoperable packetbb code-bases
- Limited NHDP, OLSRv2 interoperability testing – looks promising, but more formal testing is required
- Therefore, we invite you to the

**5th OLSR Interop Workshop
Vienna, Fall 2009**

<http://interop09.thomasclausen.org>

Future

- Intermediate:
 - Interop report I-D will be published ~1 week after IETF73
 - I-D is expected to be published with the "Interop results"

- Medium-term:
 - Over-the-Internet remote interoperability testing
 - help for packetbb implementors for debugging
 - interoperability of NHDP, OLSRv2

- One year from now:
 - Interop09 in Vienna