	Interoperability Test Description					
Identifier:	TD_6	TD_6Lo_FORMAT_01				
Objective:		Check that EUTs correctly handle uncompressed 6LoWPAN packets (EUI-64 link-local)				
Configuration:	Node	e-Node				
Technologies:	6LoV	VPAN only	1			
Level:	basio	;				
References:	RFC	4944 5.1,	8; RFC 6775 5.6			
Pre-test conditions:		<ul> <li>Header compression is disabled on both EUT1 and EUT2</li> <li>EUT1 and EUT2 are configured to use EUI-64</li> </ul>				
Test Sequence:	Step	Туре	Description			
	0	Stimulus	<ul> <li>EUT1 initiates an echo request to EUT2's link-local address</li> <li>ICMP payload = 4 bytes, total IPv6 size 52 bytes</li> </ul>			
	1	Check	<ul> <li>EUT1 sends an uncompressed 6LoWPAN packet containing the Echo Request message to EUT2's link-local address</li> <li>Dispatch value in 6LowPAN packet is "01000001"</li> <li>Both source and destination addresses are EUI-64 link-local</li> </ul>			
	2	Verify	EUT2 receives the Echo Request message from EUT1			
	3	Check	<ul> <li>EUT2 sends an uncompressed 6LoWPAN packet containing the Echo Reply message to EUT1's link-local address</li> <li>Dispatch value in 6LowPAN packet is "01000001"</li> <li>Both source and destination addresses are EUI-64 link-local</li> </ul>			
	4	Verify	EUT1 receives the Echo Reply message from EUT2			
	5	Check	The data received in the echo reply message is identical to that sent in EUT1's echo request message			

	Interoperability Test Description				
Identifier:	TD_6	TD_6Lo_FORMAT_02			
Objective:		Check that EUTs correctly handle uncompressed 6LoWPAN packets (16-bit short link-local)			
Configuration:	Node	e-Node			
Technologies:	6LoV	VPAN only	1		
Level:	basic	;			
References:	RFC	4944 5.1,	8; RFC 6775 5.6		
Pre-test conditions:		<ul> <li>Header compression is disabled on both EUT1 and EUT2</li> <li>EUT1 and EUT2 are configured to use 16-bit short address</li> </ul>			
Test Sequence:	Step	Туре	Description		
	0	Stimulus	<ul> <li>EUT1 initiates an echo request to EUT2's link-local address</li> <li>ICMP payload = 4 bytes, total IPv6 size 52 bytes</li> </ul>		
	1	Check	<ul> <li>EUT1 sends an uncompressed 6LoWPAN packet containing the Echo Request message to EUT2's link-local address</li> <li>Dispatch value in 6LowPAN packet is "01000001"</li> <li>Both source and destination addresses are 16-bit short link-local</li> </ul>		
	2	Verify	EUT2 receives the Echo Request message from EUT1		
	3	Check	<ul> <li>EUT2 sends an uncompressed 6LoWPAN packet containing the Echo Reply message to EUT1's link-local address</li> <li>Dispatch value in 6LowPAN packet is "01000001"</li> <li>Both source and destination addresses are 16-bit short link-local</li> </ul>		
	4	Verify	EUT1 receives the Echo Reply message from EUT2		
	5	Check	The data received in the echo reply message is identical to that sent in EUT1's echo request message		

		1	nteroperability Test Description		
Identifier:	TD_6	TD_6Lo_FORMAT_03			
Objective:		Check that EUTs correctly handle uncompressed 6LoWPAN fragmented packets			
Configuration:	Node	e-Node			
Technologies:	6LoV	VPAN only	l .		
Level:	basic	<del></del>			
References:	RFC	4944 5.1,	5.3; RFC 6775 5.6		
Pre-test conditions:	Head	der compre	ession is disabled on both EUT1 and EUT2		
Test Sequence:	Step	Туре	Description		
	0	Stimulus	<ul> <li>EUT1 initiates an echo request to EUT2's link-local address</li> <li>ICMP payload = 253 bytes, total IPv6 size 301 bytes</li> </ul>		
	1	Check	<ul> <li>EUT1 sends a sequence of uncompressed 6LoWPAN packets containing the Echo Request fragments to EUT2</li> <li>EUT1 correctly fragments the Echo Request:</li> <li>a 6LoWPAN FRAG1 header (dispatch 11000xxx) is included in the first packet</li> <li>a 6LoWPAN FRAGN header (dispatch 11100xxx) is included in all following packets</li> <li>the offsets form a contiguous sequence</li> <li>all fragments except the last one must be multiples of 8 bytes</li> </ul>		
	2	Verify	EUT2 reassembles correctly the fragments and receives the Echo Request message from EUT1		
	3	Check	<ul> <li>EUT2 sends a sequence of uncompressed 6LoWPAN packets containing the Echo Reply message to EUT1</li> <li>EUT1 correctly fragments the Echo Reply:</li> <li>a 6LoWPAN FRAG1 header (dispatch 11000xxx) is included in the first packet</li> <li>a 6LoWPAN FRAGN header (dispatch 11100xxx) is included in all following packets</li> <li>the offsets form a contiguous sequence</li> <li>all fragments except the last one must be multiples of 8 bytes</li> <li>The data in the echo reply message packets is identical to that sent in the echo request message packets</li> </ul>		
	4	Verify	EUT1 correctly reassembles the fragments and receives the Echo Reply message from EUT2		
	5	Verify	The data in the received echo reply message is identical to that sent in the echo request message		

		Ī	nteroperability Test Description		
Identifier:	TD_6	TD_6Lo_FORMAT_04			
Objective:		Check that EUTs correctly handle maximum size uncompressed 6LoWPAN fragmented packets			
Configuration:	Node	e-Node			
Technologies:	6LoV	VPAN only	1		
Level:	basic	<del></del>			
References:	RFC	4944 5.1,	5.3; RFC 6775 5.6		
Pre-test conditions:	Head	der compre	ession is disabled on both EUT1 and EUT2		
Test Sequence:	Step	Туре	Description		
	0	Stimulus	<ul> <li>EUT1 initiates an echo request to EUT2's link-local address</li> <li>ICMP payload = 1232 bytes, total IPv6 size 1280 bytes</li> </ul>		
	1	Check	<ul> <li>EUT1 sends a sequence of uncompressed 6LoWPAN packets containing the Echo Request fragments to EUT2</li> <li>EUT1 correctly fragments the Echo Request:</li> <li>a 6LoWPAN FRAG1 header (dispatch 11000xxx) is included in the first packet</li> <li>a 6LoWPAN FRAGN header (dispatch 11100xxx) is included in all following packets</li> <li>the offsets form a contiguous sequence</li> <li>all fragments except the last one must be multiples of 8 bytes</li> </ul>		
	2	Verify	EUT2 reassembles correctly the fragments and receives the Echo Request message from EUT1		
	3	Check	<ul> <li>EUT2 sends a sequence of uncompressed 6LoWPAN packets containing the Echo Reply message to EUT1</li> <li>EUT1 correctly fragments the Echo Reply:</li> <li>a 6LoWPAN FRAG1 header (dispatch 11000xxx) is included in the first packet</li> <li>a 6LoWPAN FRAGN header (dispatch 11100xxx) is included in all following packets</li> <li>the offsets form a contiguous sequence</li> <li>all fragments except the last one must be multiples of 8 bytes</li> <li>The data in the echo reply message packets is identical to that sent in the echo request message packets</li> </ul>		
	4	Verify	EUT1 correctly reassembles the fragments and receives the Echo Reply message from EUT2		
	5	Verify	The data in the received echo reply message is identical to that sent in the echo request message		

		I	nteroperability Test Description		
Identifier:	TD_6	TD_6Lo_FORMAT_05			
Objective:		Check that EUTs correctly handle uncompressed 6LoWPAN multicast to all-nodes (16-bit short link-local)			
Configuration:	Node	e-Node			
Technologies:	6LoV	VPAN only	1		
Level:	basic	;			
References:	RFC	4944 5.1,	8; RFC 6775 5.6		
Pre-test conditions:		<ul> <li>Header compression is disabled on both EUT1 and EUT2</li> <li>EUT1 and EUT2 are configured to use 16-bit short address</li> </ul>			
Test Sequence:	Step	Туре	Description		
	0	Stimulus	EUT1 initiates an echo request to the link-local all-nodes multicast address (FF02::1) (ICMP payload = 4 bytes, total IPv6 size 52 bytes)		
	1	Check	EUT1 sends an uncompressed 6LoWPAN packet containing the Echo Request message to EUT2		
	2	Check	Dispatch value in 6LowPAN packet is "01000001"		
	3	Verify	EUT2 receives the Echo Request message from EUT1		
	4	Check	EUT2 sends an uncompressed 6LoWPAN packet containing the Echo Reply message to EUT1		
	5	Check	Dispatch value in 6LowPAN packet is "01000001"		
	6	Verify	EUT1 receives the Echo Reply message from EUT2		
	7	Check	The data in the echo reply message is identical to that in the echo request message		

		I	nteroperability Test Description		
Identifier:	TD_6	TD_6Lo_FORMAT_06			
Objective:		Check that EUTs correctly handle uncompressed 6LoWPAN multicast to all-nodes (EUI-64 link-local)			
Configuration:	Node	e-Node			
Technologies:	6LoV	VPAN only	1		
Level:	basic	;			
References:	RFC	4944 5.1,	8; RFC 6775 5.6		
Pre-test conditions:		<ul> <li>Header compression is disabled on both EUT1 and EUT2</li> <li>EUT1 and EUT2 are configured to use EUI-64</li> </ul>			
Test Sequence:	Step	Туре	Description		
	0	Stimulus	EUT1 initiates an echo request to the link-local all-nodes multicast address (FF02::1) (ICMP payload = 4 bytes, total IPv6 size 52 bytes)		
	1	Check	EUT1 sends an uncompressed 6LoWPAN packet containing the Echo Request message to EUT2		
	2	Check	Dispatch value in 6LowPAN packet is "01000001"		
	3	Verify	EUT2 receives the Echo Request message from EUT1		
	4	Check	EUT2 sends an uncompressed 6LoWPAN packet containing the Echo Reply message to EUT1		
	5	Check	Dispatch value in 6LowPAN packet is "01000001"		
	6	Verify	EUT1 receives the Echo Reply message from EUT2		
	7	Check	The data in the echo reply message is identical to that in the echo request message		

		I	nteroperability Test Description		
Identifier:	TD_6	TD_6Lo_FORMAT_07			
Objective:		Check that EUTs correctly handle uncompressed 6LoWPAN packets (EUI-64 to 16-bit short link-local)			
Configuration:	Node	e-Node			
Technologies:	6LoV	VPAN only	/		
Level:	basic	<b>)</b>			
References:	RFC	4944 5.1,	8; RFC 6775 5.6		
Pre-test conditions:	• EU	<ul> <li>Header compression is disabled on both EUT1 and EUT2</li> <li>EUT1 is configured to use EUI-64 and EUT2 is configured to use 16-bit short address</li> </ul>			
Test Sequence:	Step	Туре	Description		
	0	Stimulus	<ul> <li>EUT1 initiates an echo request to EUT2's link-local address</li> <li>ICMP payload = 4 bytes, total IPv6 size 52 bytes</li> </ul>		
	1	Check	<ul> <li>EUT1 sends an uncompressed 6LoWPAN packet containing the Echo Request message to EUT2's link-local address</li> <li>Dispatch value in 6LowPAN packet is "01000001"</li> <li>Source address is EUI-64 link-local</li> <li>Destination address is 16-bit short link-local</li> </ul>		
	2	Verify	EUT2 receives the Echo Request message from EUT1		
	3	Check	<ul> <li>EUT2 sends an uncompressed 6LoWPAN packet containing the Echo Reply message to EUT1's link-local address</li> <li>Dispatch value in 6LowPAN packet is "01000001"</li> <li>Source address is 16-bit short link-local</li> <li>Destination address is EUI-64 link-local</li> </ul>		
	4	Verify	EUT1 receives the Echo Reply message from EUT2		
	5	Check	The data received in the echo reply message is identical to that sent in EUT1's echo request message		

		I	nteroperability Test Description		
Identifier:	TD_6	TD_6Lo_FORMAT_08			
Objective:			Ts correctly handle uncompressed 6LoWPAN packets (16-bit link-local)		
Configuration:	Node	e-Node			
Technologies:	6LoV	VPAN only	/		
Level:	basio	>			
References:	RFC	4944 5.1,	8; RFC 6775 5.6		
Pre-test conditions:	• EU	<ul> <li>Header compression is disabled on both EUT1 and EUT2</li> <li>EUT1 is configured to use 16-bit short address and EUT2 is configured to use EUI-64</li> </ul>			
Test Sequence:	Step	Туре	Description		
	0	Stimulus	<ul> <li>EUT1 initiates an echo request to EUT2's link-local address</li> <li>ICMP payload = 4 bytes, total IPv6 size 52 bytes</li> </ul>		
	1	Check	<ul> <li>EUT1 sends an uncompressed 6LoWPAN packet containing the Echo Request message to EUT2's link-local address</li> <li>Dispatch value in 6LowPAN packet is "01000001"</li> <li>Source address is 16-bit short link-local</li> <li>Destination address is EUI-64 link-local</li> </ul>		
	2	Verify	EUT2 receives the Echo Request message from EUT1		
	3	Check	<ul> <li>EUT2 sends an uncompressed 6LoWPAN packet containing the Echo Reply message to EUT1's link-local address</li> <li>Dispatch value in 6LowPAN packet is "01000001"</li> <li>Source address is EUI-64 link-local</li> <li>Destination address is 16-bit short link-local</li> </ul>		
	4	Verify	EUT1 receives the Echo Reply message from EUT2		
	5	Check	The data received in the echo reply message is identical to that sent in EUT1's echo request message		

		I	nteroperability Test Description		
Identifier:	TD_6	6Lo_FORM	MAT_09		
Objective:		Check that EUTs correctly handle token passing/maintenance at 115.2 kbit/s and correctly handle a basic 6Lo packet (link-local)			
Configuration:	6LBF	R-2Host, b	us topology		
Technologies:	6LoE	BAC only			
Level:	basio	;			
References:		net Clause ietf-6loba	e 9 [10], BACnet MS/TP Conformance Test [11], RFC 6282,		
Pre-test conditions:	• EU • LB	<ul> <li>EUTs conform to the MS/TP data link specification</li> <li>EUTs are configured to use 115,200 bit/s</li> <li>LBR is configured at address 0, Host 1 is at address 1, Host 2 is at address 2</li> <li>Nmax master is configured to 8 in all EUTs</li> </ul>			
Test Sequence:	Step	Туре	Description		
	0	Check	LBR sends token to Host 1, Host 1 sends token to Host 2, Host 2 sends token to LBR		
	1	Check	Every 50 rotations of the token, Host 2 performs Poll for Master procedure		
	2	Stimulus	<ul> <li>EUT1 initiates an echo request to EUT2's link-local address</li> <li>ICMP payload = 4 bytes, total IPv6 size 52 bytes</li> </ul>		
	3	Check	<ul> <li>EUT1 sends a 6LoBAC packet containing the Echo Request message to EUT2's link-local address</li> <li>Both source and destination addresses are link-local</li> </ul>		
	4	Verify	EUT2 receives the Echo Request message from EUT1 (may not be visible in EUR2 → optional)		
	5	Check	<ul> <li>EUT2 sends a 6LoBAC packet containing the Echo Reply message to EUT1's link-local address</li> <li>Both source and destination addresses are link-local</li> </ul>		
	6	Verify	EUT1 receives the Echo Reply message from EUT2		
	7	Check	The data received in the echo reply message is identical to that sent in EUT1's echo request message		

	Interoperability Test Description				
Identifier:	TD_6	TD_6Lo_HC_01			
Objective:		Check that EUTs correctly handle compressed 6LoWPAN packets (EUI-64 or other long address link-local, hop limit=64)			
Configuration:	Node	e-Node			
Technologies:	6LoV	VPAN, BT	LE, DECT		
Level:	basic	<del></del>			
References:	RFC	6282 sect	ion 3; RFC 6775 5.6		
Pre-test conditions:	• ÈU	<ul> <li>(6LoWPAN:) Header compression is enabled on both EUT1 and EUT2</li> <li>EUT1 and EUT2 are configured to use EUI-64 or other long address</li> <li>EUT1 and EUT2 are configured with a default hop limit of 64</li> </ul>			
Test Sequence:	Step	Туре	Description		
	0	Stimulus	<ul> <li>EUT1 initiates an echo request to EUT2's link-local address</li> <li>ICMP payload = 4 bytes, total IPv6 size 52 bytes</li> <li>Hop Limit is 64, no traffic class or flow label is being used</li> </ul>		
	1	Check	EUT1 sends a compressed 6LoWPAN packet containing the Echo Request message to EUT2		
	2	Check	Dispatch value in 6LowPAN packet is "011TFxHL"		
	3	Feature	In IP_HC, TF is 11 and the ecn, dscp and flow label fields are compressed away		
	4	Feature	In IP_HC, HLIM (HL) is 10 and the hop limit field is compressed away		
	5	Feature	In IP_HC, SAC=0, SAM=11; DAC=0; DAM=11		
	6	Verify	EUT2 receives the Echo Request message from EUT1		
	7	Check	EUT2 sends a compressed 6LoWPAN packet containing the Echo Reply message to EUT1		
	8	Check	Dispatch value in 6LowPAN packet is "011TFxHL"		
	9	Feature	In IP_HC, TF is 11 and the ecn, dscp and flow label fields are compressed away		
	10	Feature	In IP_HC, HLIM (HL) is 10 and the hop limit field is compressed away		
	11	Feature	In IP_HC, SAC=0, SAM=11; DAC=0; DAM=11		
	12	Verify	EUT1 receives the Echo Reply message from EUT2		
Notes:	requi	<ul> <li>The feature tests check that best compression is used (but this is not a requirement for interoperability)</li> <li>The Echo Reply message might use a different hop limit in some implementations, then the HLIM value might also be different.</li> </ul>			

Interoperability Test Description					
Identifier:	TD_6	TD_6Lo_HC_02			
Objective:		Check that EUTs correctly handle compressed 6LoWPAN packets (16-bit or other short address link-local, hop limit=64)			
Configuration:	Node	e-Node			
Technologies:	6LoV	VPAN, 6Lo	BAC, NFC, LoWPANz		
Level:	basic	;			
References:	RFC	6282 sect	ion 3; RFC 6775 5.6		
Pre-test conditions:	• ÈU	<ul> <li>(6LoWPAN:) Header compression is enabled on both EUT1 and EUT2</li> <li>EUT1 and EUT2 are configured to use 16-bit or other short address</li> <li>EUT1 and EUT2 are configured with a default hop limit of 64</li> </ul>			
Test Sequence:	Step	Туре	Description		
	0	Stimulus	<ul> <li>EUT1 initiates an echo request to EUT2's link-local address</li> <li>ICMP payload = 4 bytes, total IPv6 size 52 bytes</li> <li>Hop Limit is 64, no traffic class or flow label is being used</li> </ul>		
	1	Check	EUT1 sends a compressed 6LoWPAN packet containing the Echo Request message to EUT2		
	2	Check	Dispatch value in 6LowPAN packet is "011TFxHL"		
	3	Feature	In IP_HC, TF is 11 and the ecn, dscp and flow label fields are compressed away		
	4	Feature	In IP_HC, HLIM (HL) is 10 and the hop limit field is compressed away		
	5	Feature	In IP_HC, SAC=0, SAM=11; DAC=0; DAM=11		
	6	Verify	EUT2 receives the Echo Request message from EUT1		
	7	Check	EUT2 sends a compressed 6LoWPAN packet containing the Echo Reply message to EUT1		
	8	Check	Dispatch value in 6LowPAN packet is "011TFxHL"		
	9	Feature	In IP_HC, TF is 11 and the ecn, dscp and flow label fields are compressed away		
	10	Feature	In IP_HC, HLIM (HL) is 10 and the hop limit field is compressed away		
	11	Feature	In IP_HC, SAC=0, SAM=11; DAC=0; DAM=11		
	12	Verify	EUT1 receives the Echo Reply message from EUT2		
Notes:	requi	<ul> <li>The feature tests check that best compression is used (but this is not a requirement for interoperability)</li> <li>The Echo Reply message might use a different hop limit in some implementations, then the HLIM value might also be different.</li> </ul>			

	Interoperability Test Description				
Identifier:	TD_6	TD_6Lo_HC_03			
Objective:		Check that EUTs correctly handle compressed 6LoWPAN packets (EUI-64 or other long address link-local, hop limit=63)			
Configuration:	Node	e-Node			
Technologies:	6LoV	VPAN, BT	LE, DECT		
Level:	basic	<del></del> ;			
References:	RFC	6282 sect	ion 3; RFC 6775 5.6		
Pre-test conditions:	• ÈU	<ul> <li>(6LoWPAN:) Header compression is enabled on both EUT1 and EUT2</li> <li>EUT1 and EUT2 are configured to use EUI-64 or other long address</li> <li>EUT1 and EUT2 are configured with a default hop limit of 63</li> </ul>			
Test Sequence:	Step	Туре	Description		
	0	Stimulus	<ul> <li>EUT1 initiates an echo request to EUT2's link-local address</li> <li>ICMP payload = 4 bytes, total IPv6 size 52 bytes</li> <li>Hop Limit is 63, no traffic class or flow label is being used</li> </ul>		
	1	Check	EUT1 sends a compressed 6LoWPAN packet containing the Echo Request message to EUT2		
	2	Check	Dispatch value in 6LowPAN packet is "011TFxHL"		
	3	Feature	In IP_HC, TF is 11 and the ecn, dscp and flow label fields are compressed away		
	4	Feature	In IP_HC, HLIM (HL) is 00 and the hop limit field is carried in- line		
	5	Feature	In IP_HC, SAC=0, SAM=11; DAC=0; DAM=11		
	6	Verify	EUT2 receives the Echo Request message from EUT1		
	7	Check	EUT2 sends a compressed 6LoWPAN packet containing the Echo Reply message to EUT1		
	8	Check	Dispatch value in 6LowPAN packet is "011TFxHL"		
	9	Feature	In IP_HC, TF is 11 and the ecn, dscp and flow label fields are compressed away		
	10	Feature	In IP_HC, HLIM (HL) is 00 and the hop limit field is carried in- line		
	11	Feature	In IP_HC, SAC=0, SAM=11; DAC=0; DAM=11		
	12	Verify	EUT1 receives the Echo Reply message from EUT2		
Notes:	requi	<ul> <li>The feature tests check that best compression is used (but this is not a requirement for interoperability)</li> <li>The Echo Reply message might use a different hop limit in some implementations, then the HLIM value might also be different.</li> </ul>			

	Interoperability Test Description					
Identifier:	TD_6	TD_6Lo_HC_04				
Objective:		Check that EUTs correctly handle compressed 6LoWPAN packets (16-bit or other short address link-local, hop limit=63)				
Configuration:	Node	e-Node				
Technologies:	6LoV	VPAN, 6Lo	BAC, NFC, LoWPANz			
Level:	basic	;				
References:	RFC	6282 sect	ion 3; RFC 6775 5.6			
Pre-test conditions:	• ÈU	IT1 and Él	Header compression is enabled on both EUT1 and EUT2 JT2 are configured to use 16-bit or other short address JT2 are configured with a default hop limit of 63			
Test Sequence:	Step	Туре	Description			
	0	Stimulus	<ul> <li>EUT1 initiates an echo request to EUT2's link-local address</li> <li>ICMP payload = 4 bytes, total IPv6 size 52 bytes</li> <li>Hop Limit is 63, no traffic class or flow label is being used</li> </ul>			
	1	Check	EUT1 sends a compressed 6LoWPAN packet containing the Echo Request message to EUT2			
	2	Check	Dispatch value in 6LowPAN packet is "011TFxHL"			
	3	Feature	In IP_HC, TF is 11 and the ecn, dscp and flow label fields are compressed away			
	4	Feature	In IP_HC, HLIM (HL) is 00 and the hop limit field is carried in- line			
	5	Feature	In IP_HC, SAC=0, SAM=11; DAC=0; DAM=11			
	6	Verify	EUT2 receives the Echo Request message from EUT1			
	7	Check	EUT2 sends a compressed 6LoWPAN packet containing the Echo Reply message to EUT1			
	8	Check	Dispatch value in 6LowPAN packet is "011TFxHL"			
	9	Feature	In IP_HC, TF is 11 and the ecn, dscp and flow label fields are compressed away			
	10	Feature	In IP_HC, HLIM (HL) is 00 and the hop limit field is carried in- line			
	11	Feature	In IP_HC, SAC=0, SAM=11; DAC=0; DAM=11			
	12	Verify	EUT1 receives the Echo Reply message from EUT2			
Notes:	requi	<ul> <li>The feature tests check that best compression is used (but this is not a requirement for interoperability)</li> <li>The Echo Reply message might use a different hop limit in some implementations, then the HLIM value might also be different.</li> </ul>				

	Interoperability Test Description					
Identifier:	TD_6	TD_6Lo_HC_05				
Objective:		Check that EUTs correctly handle compressed UDP packets (EUI-64 or other long address, server port 5683)				
Configuration:	Host	-6LR				
Technologies:	6LoV	VPAN, BT	LE, DECT			
Level:	basio	;				
References:	RFC	6282, 4.3				
Pre-test conditions:	• Ĥo	<ul> <li>(6LoWPAN:) Header compression is enabled on both Host and Router</li> <li>Host is configured to use EUI-64 address</li> <li>A CoAP ping server is installed on port 5683 of the host</li> </ul>				
Test Sequence:	Step	Туре	Description			
	0	Stimulus	6LR initiates a CoAP Ping request to Host's CoAP Ping server			
	1	Check	6LR sends a 6LoWPAN packet containing the CoAP Ping message to Host			
	2	Feature	NH is set, NHC is 111100x0, the source port is compressed to 8 bits (x=1) or uncompressed (x=0), the destination port is uncompressed 5683			
	3	Verify	Host receives the CoAP Ping message from 6LR			
	4	Check	Host sends a 6LoWPAN packet containing the CoAP Reset message to 6LR			
	5	Feature	NH is set, NHC is 1111000x, the source port is uncompressed 5683, the destination port is compressed to 8 bits (x=1) or uncompressed (x=0)			
	6	Verify	6LR receives the CoAP Reset message from Host			
Notes:			ets check that best compression is used (but this is not a rinteroperability)			

Interoperability Test Description					
Identifier:	TD_6	TD_6Lo_HC_06			
Objective:		Check that EUTs correctly handle compressed UDP packets (16-bit or other short address, server port 5683)			
Configuration:	Host	-6LR			
Technologies:	6LoV	VPAN, 6Lo	BAC, NFC, LoWPANz		
Level:	basio	;			
References:	RFC	6282, 4.3			
Pre-test conditions:	• Ĥo	<ul> <li>(6LoWPAN:) Header compression is enabled on both Host and Router</li> <li>Host is configured to use 16-bit address</li> <li>A CoAP ping server is installed on port 5683 of the host</li> </ul>			
Test Sequence:	Step	Туре	Description		
	0	Stimulus	6LR initiates a CoAP Ping request to Host's CoAP Ping server		
	1	Check	6LR sends a 6LoWPAN packet containing the CoAP Ping message to Host		
	2	Feature	NH is set, NHC is 111100x0, the source port is compressed to 8 bits (x=1) or uncompressed (x=0), the destination port is uncompressed 5683		
	3	Verify	Host receives the CoAP Ping message from 6LR		
	4	Check	Host sends a 6LoWPAN packet containing the CoAP Reset message to 6LR		
	5	Feature	NH is set, NHC is 1111000x, the source port is uncompressed 5683, the destination port is compressed to 8 bits (x=1) or uncompressed (x=0)		
	6	Verify	6LR receives the CoAP Reset message from Host		
Notes:		The feature tests check that best compression is used (but this is not a requirement for interoperability)			

Interoperability Test Description					
Identifier:	TD_6	TD_6Lo_HC_07			
Objective:		Check that EUTs correctly handle compressed UDP packets (EUI-64 or other long address, server port 61616)			
Configuration:	Host	-6LR			
Technologies:	6LoV	VPAN, BT	LE, DECT		
Level:	basic	;			
References:	RFC	6282, 4.3			
Pre-test conditions:	• Ĥo	<ul> <li>(6LoWPAN:) Header compression is enabled on both Host and Router</li> <li>Host is configured to use EUI-64 address</li> <li>A CoAP ping server is installed on port 61616 of the host</li> </ul>			
Test Sequence:	Step	Туре	Description		
	0	Stimulus	6LR initiates a CoAP Ping request to Host's CoAP Ping server		
	1	Check	6LR sends a 6LoWPAN packet containing the CoAP Ping message to Host		
	2	Feature	NH is set, NHC is 111100x1, the destination port is compressed to 4 bits of 0000 (x=1) or 8 bits of 0xb0 (x=0)		
	3	Verify	Host receives the CoAP Ping message from 6LR		
	4	Check	Host sends a 6LoWPAN packet containing the CoAP Reset message to 6LR		
	5	Feature	NH is set, NHC is 1111001x, the source port is compressed to 4 bits of 0000 (x=1) or 8 bits of 0xb0 (x=0)		
	6	Verify	6LR receives the CoAP Reset message from Host		
Notes:		The feature tests check that best compression is used (but this is not a requirement for interoperability)			

Interoperability Test Description					
Identifier:	TD_6	TD_6Lo_HC_08			
Objective:		Check that EUTs correctly handle compressed UDP packets (16-bit or other short address, server port 61616)			
Configuration:	Host	-6LR			
Technologies:	6LoV	VPAN, 6Lo	BAC, NFC, LoWPANz		
Level:	basic	;			
References:	RFC	6282, 4.3			
Pre-test conditions:	• Ĥo	<ul> <li>(6LoWPAN:) Header compression is enabled on both Host and Router</li> <li>Host is configured to use 16-bit address</li> <li>A CoAP ping server is installed on port 61616 of the host</li> </ul>			
Test Sequence:	Step	Туре	Description		
	0	Stimulus	6LR initiates a CoAP Ping request to Host's CoAP Ping server		
	1	Check	6LR sends a 6LoWPAN packet containing the CoAP Ping message to Host		
	2	Feature	NH is set, NHC is 111100x1, the destination port is compressed to 4 bits of 0000 (x=1) or 8 bits of 0xb0 (x=0)		
	3	Verify	Host receives the CoAP Ping message from 6LR		
	4	Check	Host sends a 6LoWPAN packet containing the CoAP Reset message to 6LR		
	5	Feature	NH is set, NHC is 1111001x, the source port is compressed to 4 bits of 0000 (x=1) or 8 bits of 0xb0 (x=0)		
	6	Verify	6LR receives the CoAP Reset message from Host		
Notes:		The feature tests check that best compression is used (but this is not a requirement for interoperability)			

	Interoperability Test Description					
Identifier:	TD_6	TD_6Lo_HC_09				
Objective:		Check that EUTs correctly handle compressed 6LoWPAN packets (EUI-64 or other long address to 16-bit or other short address link-local, hop limit=64)				
Configuration:	Node	e-Node				
Technologies:	6LoV	VPAN only	l .			
Level:	basic	;				
References:	RFC	6282 sect	tion 3; RFC 6775 5.6			
Pre-test conditions:		T1 is conf	Header compression is enabled on both EUT1 and EUT2 igured to use EUI-64 and EUT2 is configured to use 16-bit short			
Test Sequence:	Step	Туре	Description			
	0	Stimulus	<ul> <li>EUT1 initiates an echo request to EUT2's link-local address</li> <li>ICMP payload = 4 bytes, total IPv6 size 52 bytes</li> <li>Hop Limit is 64, no traffic class or flow label is being used</li> </ul>			
	1	Check	EUT1 sends a compressed 6LoWPAN packet containing the Echo Request message to EUT2			
	2	Check	Dispatch value in 6LowPAN packet is "011TFxHL"			
	3	Feature	In IP_HC, TF is 11 and the ecn, dscp and flow label fields are compressed away			
	4	Feature	In IP_HC, HLIM (HL) is 10 and the hop limit field is compressed away			
	5	Feature	In IP_HC, SAC=0, SAM=11; DAC=0; DAM=11			
	6	Verify	EUT2 receives the Echo Request message from EUT1			
	7	Check	EUT2 sends a compressed 6LoWPAN packet containing the Echo Reply message to EUT1			
	8	Check	Dispatch value in 6LowPAN packet is "011TFxHL"			
	9	Feature	In IP_HC, TF is 11 and the ecn, dscp and flow label fields are compressed away			
	10	Feature	In IP_HC, HLIM (HL) is 10 and the hop limit field is compressed away			
	11	Feature	In IP_HC, SAC=0, SAM=11; DAC=0; DAM=11			
	12	Verify	EUT1 receives the Echo Reply message from EUT2			
Notes:	requi	<ul> <li>The feature tests check that best compression is used (but this is not a requirement for interoperability)</li> <li>The Echo Reply message might use a different hop limit in some implementations, then the HLIM value might also be different.</li> </ul>				

	Interoperability Test Description				
Identifier:	TD_6	TD_6Lo_HC_10			
Objective:		Check that EUTs correctly handle compressed 6LoWPAN packets (16-bit or other short address to EUI-64 or other long address link-local, hop limit=64)			
Configuration:	Node	e-Node			
Technologies:	6LoV	VPAN only	I		
Level:	basic	<del></del> ;			
References:	RFC	6282 sect	ion 3; RFC 6775 5.6		
Pre-test conditions:	• ÈU		Header compression is enabled on both EUT1 and EUT2 igured to use 16-bit short address and EUT2 is configured to		
Test Sequence:	Step	Туре	Description		
	0	Stimulus	<ul> <li>EUT1 initiates an echo request to EUT2's link-local address</li> <li>ICMP payload = 4 bytes, total IPv6 size 52 bytes</li> <li>Hop Limit is 64, no traffic class or flow label is being used</li> </ul>		
	1	Check	EUT1 sends a compressed 6LoWPAN packet containing the Echo Request message to EUT2		
	2	Check	Dispatch value in 6LowPAN packet is "011TFxHL"		
	3	Feature	In IP_HC, TF is 11 and the ecn, dscp and flow label fields are compressed away		
	4	Feature	In IP_HC, HLIM (HL) is 10 and the hop limit field is compressed away		
	5	Feature	In IP_HC, SAC=0, SAM=11; DAC=0; DAM=11		
	6	Verify	EUT2 receives the Echo Request message from EUT1		
	7	Check	EUT2 sends a compressed 6LoWPAN packet containing the Echo Reply message to EUT1		
	8	Check	Dispatch value in 6LowPAN packet is "011TFxHL"		
	9	Feature	In IP_HC, TF is 11 and the ecn, dscp and flow label fields are compressed away		
	10	Feature	In IP_HC, HLIM (HL) is 10 and the hop limit field is compressed away		
	11	Feature	In IP_HC, SAC=0, SAM=11; DAC=0; DAM=11		
	12	Verify	EUT1 receives the Echo Reply message from EUT2		
Notes:	requi	<ul> <li>The feature tests check that best compression is used (but this is not a requirement for interoperability)</li> <li>The Echo Reply message might use a different hop limit in some implementations, then the HLIM value might also be different.</li> </ul>			

	Interoperability Test Description				
Identifier:	TD_6	TD_6Lo_HC_11			
Objective:		Check that EUTs correctly handle NH=0 compressed TCP packets (EUI-64 or other long address)			
Configuration:	Host	-6LR			
Technologies:	6LoV	VPAN, BT	LE, DECT		
Level:	adva	nced			
References:	RFC	6282, 3.1	.1		
Pre-test conditions:	• Ho	<ul> <li>(6LoWPAN:) Header compression is enabled on both Host and Router</li> <li>Host is configured to use EUI-64 address</li> <li>A TCP server (e.g., a HTTP server) is installed on port 80 of the host</li> </ul>			
Test Sequence:	Step	Туре	Description		
	0	Stimulus	6LR initiates a TCP SYN request (connect) to Host's TCP server		
	1	Check	6LR sends a 6LoWPAN packet containing the TCP SYN packet to Host		
	2	Check	NH=0		
	3	Verify	Host receives the TCP SYN packet from 6LR		
	4	Check	Host sends a 6LoWPAN packet containing a TCP SYN/ACK message to 6LR		
	5	Check	NH=0		
	6	Verify	6LR receives the TCP SYN/ACK from Host		
Notes:	Optio	onal, as no	t all 6lrs and hosts support TCP		

Interoperability Test Description					
Identifier:	TD_6	TD_6Lo_HC_12			
Objective:		Check that EUTs correctly handle NH=0 compressed TCP packets (16-bit or other short address)			
Configuration:	Host	-6LR			
Technologies:	6LoV	VPAN, 6Lc	BAC, NFC, LoWPANz		
Level:	adva	nced			
References:	RFC	6282, 3.1.	1		
Pre-test conditions:	• Ĥo	<ul> <li>(6LoWPAN:) Header compression is enabled on both Host and Router</li> <li>Host is configured to use 16-bit address</li> <li>A TCP server (e.g., a HTTP server) is installed on port 80 of the host</li> </ul>			
Test Sequence:	Step	Туре	Description		
	0	Stimulus	6LR initiates a TCP SYN request (connect) to Host's TCP server		
	1	Check	6LR sends a 6LoWPAN packet containing the TCP SYN packet to Host		
	2	Check	NH=0		
	3	Verify	Host receives the TCP SYN packet from 6LR		
	4	Check	Host sends a 6LoWPAN packet containing a TCP SYN/ACK message to 6LR		
	5	Check	NH=0		
	6	Verify	6LR receives the TCP SYN/ACK from Host		
Notes:	Optio	onal, as no	t all 6lrs and hosts support TCP		

	Interoperability Test Description					
Identifier:	TD_6	Lo_ND_01				
Objective:	Checl	Check that a host is able to register its global IPv6 address (EUI-64 or other long address)				
Configuration:	Host-	Host-6LR				
Technologies:	6LoW	PAN, BTL	E, DECT			
Level:	basic					
References:	RFC (	6775 10.2				
Pre-test conditions:			Header compression is enabled on both Host and Router ured to use EUI-64 or other long address			
Test Sequence:	Step	Туре	Description			
	0	Stimulus	Initialize the network interface of the Host			
	1	Check	The Host sends a Router Solicitation to all-routers multicast address with SLLAO (EUI-64 or other long address). Source = link local based on EUI-64 or other long address			
	2	Verify	The Router receives the Router Solicitation from the host.			
	3	Check	<ul> <li>The Router sends a unicast Router Advertisement containing PIO and optionally 6COs to the host.</li> <li>Link local addresses are used.</li> <li>The L bit is not set.</li> </ul>			
	4	Verify	The host receives the Router Advertisement from the router			
	5	Check	The host configures its tentative global IPv6 address based on the PIO information in RA from the Router (EUI-64 or other long address)			
	6	Check	The host registers its tentative address by sending a unicast Neighbor Solicitation containing ARO and SLLAO. Source = GP64			
	7	Verify	The Router receives the Neighbor Solicitation from the host.			
	8	Check	The Router sends a Neighbor Advertisement with Status set to 0 (Dest = GP64)			
	9	Verify	The host updates the status of the tentative address			
	10	Stimulus	<ul> <li>The Router initiates an echo request to the Host's new global address, using its own global address as the source</li> <li>ICMP payload = 4 bytes, total IPv6 size 52 bytes</li> <li>Hop Limit is 64, no traffic class or flow label is being used</li> </ul>			
	11	Check	The Router sends a 6LoWPAN packet containing the Echo Request message to the Host			
	12	Check	Dispatch value in 6LowPAN packet is "011TFxHL"			
	13	Feature	In IP_HC, TF is 11 and the ecn, dscp and flow label fields are compressed away			
	14	Feature	In IP_HC, HLIM (HL) is 10 and the hop limit field is compressed away			
	15	Verify	The Host receives the Echo Request message from the Router			
	16	Check	The Host sends a 6LoWPAN packet containing the Echo Reply message to the Router			
	17	Check	Dispatch value in 6LowPAN packet is "011TFxHL"			
	18	Feature	In IP_HC, TF is 11 and the ecn, dscp and flow label fields are compressed away			
	19	Feature	In IP_HC, HLIM (HL) is 10 and the hop limit field is compressed away			
	20	Verify	The Router receives the Echo Reply message from the Host			
Notes:		The Echo Reply message might use a different hop limit in some implementations, then the HLIM value might also be different.				

	Interoperability Test Description					
Identifier:	TD_6	Lo_ND_02	2			
Objective:	Checl	Check that a host is able to register its global IPv6 address (16-bit or other short address)				
Configuration:	Host-	Host-6LR				
Technologies:	6LoW	6LoWPAN, 6LoBAC, NFC, LoWPANz				
Level:	basic					
References:	RFC (	6775 10.2				
Pre-test conditions:			Header compression is enabled on both Host and Router ured to use 16-bit or other short address			
Test Sequence:	Step	Туре	Description			
	0	Stimulus	Initialize the network interface of the Host			
	1	Check	The Host sends a Router Solicitation to all-routers multicast address with SLLAO (EUI-64 or other long address). Source = link local based on EUI-64 or other long address			
	2	Verify	The Router receives the Router Solicitation from the host.			
	3	Check	<ul> <li>The Router sends a unicast Router Advertisement containing PIO and optionally 6COs to the host.</li> <li>Link local addresses are used.</li> <li>The L bit is set (6LoBAC); the L bit is not set (NFC, LoWPANz).</li> </ul>			
	4	Verify	The host receives the Router Advertisement from the router			
	5	Check	The host configures its tentative global IPv6 address based on the PIO information in RA from the Router (16-bit or other short address)			
	6	Check	The host registers its tentative address by sending a unicast Neighbor Solicitation containing ARO and SLLAO. Source = GP16			
	7	Verify	The Router receives the Neighbor Solicitation from the host.			
	8	Check	The Router sends a Neighbor Advertisement with Status set to 0 (Dest = GP16)			
	9	Verify	The host updates the status of the tentative address			
	10	Stimulus	<ul> <li>The Router initiates an echo request to the Host's new global address, using its own global address as the source</li> <li>ICMP payload = 4 bytes, total IPv6 size 52 bytes</li> <li>Hop Limit is 64, no traffic class or flow label is being used</li> </ul>			
	11	Check	The Router sends a 6LoWPAN packet containing the Echo Request message to the Host			
	12	Check	Dispatch value in 6LowPAN packet is "011TFxHL"			
	13	Feature	In IP_HC, TF is 11 and the ecn, dscp and flow label fields are compressed away			
	14	Feature	In IP_HC, HLIM (HL) is 10 and the hop limit field is compressed away			
	15	Verify	The Host receives the Echo Request message from the Router			
	16	Check	The Host sends a 6LoWPAN packet containing the Echo Reply message to the Router			
	17	Check	Dispatch value in 6LowPAN packet is "011TFxHL"			
	18	Feature	In IP_HC, TF is 11 and the ecn, dscp and flow label fields are compressed away			
	19	Feature	In IP_HC, HLIM (HL) is 10 and the hop limit field is compressed away			
	20	Verify	The Router receives the Echo Reply message from the Host			
Notes:		The Echo Reply message might use a different hop limit in some implementations, then the HLIM value might also be different.				

Interoperability Test Description					
Identifier:	TD_6	TD_6Lo_ND_03			
Objective:	Chec	Check Host NUD behavior			
Configuration:	Host-	-6LR			
Technologies:	all	all			
Level:	basic	basic			
References:	RFC	RFC 6775 5.5			
Pre-test conditions:		<ul> <li>(6LoWPAN:) Header compression is enabled on both Host and Router</li> <li>Host is up and registered its global address with the Router</li> </ul>			
Test Sequence:	Step	Туре	Description		
	0	Stimulus	Host sends a sequence of echo requests to 2001:db8::1		
	1	Verify	Host sends a unicast NS message to the 6LR to perform NUD		

Interoperability Test Description					
Identifier:	TD_6	TD_6Lo_ND_04			
Objective:	Chec	k 6LR NU	D behavior (ICMP version)		
Configuration:	Host-	-6LR			
Technologies:	all	all			
Level:	basic	basic			
References:	RFC 6775 5.5				
Pre-test conditions:	<ul> <li>(6LoWPAN:) Header compression is enabled on both Host and Router</li> <li>Host is up and registered its global address with the Router</li> </ul>				
Test Sequence:	Step	Туре	Description		
	0	Stimulus	6LR sends a sequence of echo requests to Host		
	1	Stimulus	After 10 seconds, echo reply function is disabled on host		
	2	Verify	6LR sends a unicast NS message to the host to perform NUD		
Notes:	Optional, as not all hosts allow disabling echo reply function				

Interoperability Test Description					
Identifier:	TD_6	6Lo_ND_0	5		
Objective:	Chec	k 6LR NU	D behavior (UDP version)		
Configuration:	Host	-6LR			
Technologies:	all	all			
Level:	basic	basic			
References:	RFC	RFC 6775 5.5			
Pre-test conditions:	• À (	<ul> <li>(6LoWPAN:) Header compression is enabled on both Host and Router</li> <li>A CoAP ping server is installed on port 5683 of the host</li> <li>Host is up and registered its global address with the Router</li> </ul>			
Test Sequence:	Step	Туре	Description		
	0	Stimulus	6LR sends a sequence of CoAP pings to Host		
	1	Stimulus	After 10 seconds, CoAP server function is disabled on host		
	2	Verify	6LR sends a unicast NS message to the host to perform NUD		
Notes:	Optional, as not all hosts allow disabling CoAP server function				

	Interoperability Test Description				
Identifier:	TD_6	TD_6Lo_ND_06			
Objective:	Chec	Check host behavior under multiple prefixes (EUI-64 or other long address)			
Configuration:	Host-	6LR			
Technologies:	6LoW	/PAN, BTL	E, DECT		
Level:	advar	nced			
References:	RFC	4861 3.1			
Pre-test conditions:	• Hos	<ul> <li>(6LoWPAN:) Header compression is enabled on both Host and Router</li> <li>Host is configured to use EUI-64 or other long address</li> <li>Router is configured with multiple prefixes</li> </ul>			
Test Sequence:	Step	Туре	Description		
	0	Stimulus	Initialize the network interface of the Host		
	1	Check	The Host sends a Router Solicitation to all-routers multicast address with SLLAO (EUI-64 or other long address). Source = link local based on EUI-64 or other long address		
	2	Verify	The Router receives the Router Solicitation from the host.		
	3	Check	<ul> <li>The Router sends a unicast Router Advertisement containing PIO with multiple prefixes and optionally 6COs to the host.</li> <li>Link local addresses are used.</li> <li>The L bit is not set.</li> </ul>		
	4	Verify	The host receives the Router Advertisement from the router		
	5	Check	The host configures a number of tentative global IPv6 address based on the PIO information in RA from the Router (EUI-64 or other long address)		
	6	Check	The host registers its tentative addresses by sending unicast Neighbor Solicitations containing ARO and SLLAO. Source = GP64		
	7	Verify	The Router receives the Neighbor Solicitations from the host.		
	8	Check	The Router sends Neighbor Advertisements with Status set to 0 (Dest = GP64)		
	9	Verify	The host updates the status of the tentative addresses		
	10	Stimulus	<ul> <li>The Router initiates an echo request to one of the Host's new global addresses, using the appropriate own global address as the source</li> <li>ICMP payload = 4 bytes, total IPv6 size 52 bytes</li> <li>Hop Limit is 64, no traffic class or flow label is being used</li> </ul>		
	11	Check	The Router sends a 6LoWPAN packet containing the Echo Request message to the Host		
	12	Check	Dispatch value in 6LowPAN packet is "011TFxHL"		
	13	Feature	In IP_HC, TF is 11 and the ecn, dscp and flow label fields are compressed away		
	14	Feature	In IP_HC, HLIM (HL) is 10 and the hop limit field is compressed away		
	15	Verify	The Host receives the Echo Request message from the Router		
	16	Check	The Host sends a 6LoWPAN packet containing the Echo Reply message to the Router		
	17	Check	Dispatch value in 6LowPAN packet is "011TFxHL"		
	18	Feature	In IP_HC, TF is 11 and the ecn, dscp and flow label fields are compressed away		
	19	Feature	In IP_HC, HLIM (HL) is 10 and the hop limit field is compressed away		
	20	Verify	The Router receives the Echo Reply message from the Host		
Notes:	<ul> <li>Optional, as not all 6lrs and hosts allow multiple prefixes</li> <li>The Echo Reply message might use a different hop limit in some implementations, then the HLIM value might also be different.</li> </ul>				

	Interoperability Test Description				
Identifier:	TD_6	TD_6Lo_ND_07			
Objective:	Chec	Check host behavior under multiple prefixes (16-bit or other short address)			
Configuration:	Host-	6LR			
Technologies:	6LoW	/PAN, 6LoI	BAC, NFC, LoWPANz		
Level:	advar	nced			
References:	RFC	4861 3.1			
Pre-test conditions:	• Hos	<ul> <li>(6LoWPAN:) Header compression is enabled on both Host and Router</li> <li>Host is configured to use 16-bit or other short address</li> <li>Router is configured with multiple prefixes</li> </ul>			
Test Sequence:	Step	Туре	Description		
	0	Stimulus	Initialize the network interface of the Host		
	1	Check	The Host sends a Router Solicitation to all-routers multicast address with SLLAO (EUI-64 or other long address). Source = link local based on EUI-64 or other long address		
	2	Verify	The Router receives the Router Solicitation from the host.		
	3	Check	<ul> <li>The Router sends a unicast Router Advertisement containing PIO with multiple prefixes and optionally 6COs to the host.</li> <li>Link local addresses are used.</li> <li>The L bit is set (6LoBAC); the L bit is not set (NFC, LoWPANz).</li> </ul>		
	4	Verify	The host receives the Router Advertisement from the router		
	5	Check	The host configures a number of tentative global IPv6 address based on the PIO information in RA from the Router (16-bit or other short address)		
	6	Check	The host registers its tentative addresses by sending unicast Neighbor Solicitations containing ARO and SLLAO. Source = GP16		
	7	Verify	The Router receives the Neighbor Solicitations from the host.		
	8	Check	The Router sends Neighbor Advertisements with Status set to 0 (Dest = GP16)		
	9	Verify	The host updates the status of the tentative addresses		
	10	Stimulus	<ul> <li>The Router initiates an echo request to one of the Host's new global addresses, using the appropriate own global address as the source</li> <li>ICMP payload = 4 bytes, total IPv6 size 52 bytes</li> <li>Hop Limit is 64, no traffic class or flow label is being used</li> </ul>		
	11	Check	The Router sends a 6LoWPAN packet containing the Echo Request message to the Host		
	12	Check	Dispatch value in 6LowPAN packet is "011TFxHL"		
	13	Feature	In IP_HC, TF is 11 and the ecn, dscp and flow label fields are compressed away		
	14	Feature	In IP_HC, HLIM (HL) is 10 and the hop limit field is compressed away		
	15	Verify	The Host receives the Echo Request message from the Router		
	16	Check	The Host sends a 6LoWPAN packet containing the Echo Reply message to the Router		
	17	Check	Dispatch value in 6LowPAN packet is "011TFxHL"		
	18	Feature	In IP_HC, TF is 11 and the ecn, dscp and flow label fields are compressed away		
	19	Feature	In IP_HC, HLIM (HL) is 10 and the hop limit field is compressed away		
	20	Verify	The Router receives the Echo Reply message from the Host		
Notes:	• The	<ul> <li>Optional, as not all 6lrs and hosts allow multiple prefixes</li> <li>The Echo Reply message might use a different hop limit in some implementations, then the HLIM value might also be different.</li> </ul>			

Interoperability Test Description					
Identifier:	TD_6Lo_ND_HC_01				
Objective:	Chec	Check that EUTs make use of context 0 (EUI-64 or other long address)			
Configuration:	Host	-6LR			
Technologies:	6LoV	VPAN, BT	LE, DECT		
Level:	adva	nced			
References:	RFC	6775 5.4,	RFC 6282 3.1.1		
Pre-test conditions:	• ÈU	<ul> <li>(6LoWPAN:) Header compression is enabled on both EUT1 and EUT2</li> <li>EUT1 and EUT2 are configured to use EUI-64 or other long address</li> <li>EUT1 and EUT2 are configured with a default hop limit of 64</li> </ul>			
Test Sequence:	Step	Туре	Description		
	0	Stimulus	Host is set up with 6LR and receives context 0 for the global prefix		
	1	Stimulus	<ul> <li>EUT1 initiates an echo request to EUT2's GP64 address</li> <li>ICMP payload = 4 bytes, total IPv6 size 52 bytes</li> <li>Hop Limit is 64, no traffic class or flow label is being used</li> </ul>		
	2	Check	EUT1 sends a 6LoWPAN packet containing the Echo Request message to EUT2		
	3	Feature	In IP_HC, TF is 11 and the ecn, dscp and flow label fields are compressed away		
	4	Feature	In IP_HC, HLIM (HL) is 10 and the hop limit field is compressed away		
	5	Feature	The compression makes use of the global prefix (SAC/DAC = 1, SAM/DAM=01/11)		
	6	Feature	The context identifier extension is not present (CID = 0)		
	7	Check	Dispatch value in 6LowPAN packet is "011TFxHL"		
	8	Verify	EUT2 receives the Echo Request message from EUT1		
	9	Check	EUT2 sends a compressed 6LoWPAN packet containing the Echo Reply message to EUT1		
	10	Feature	In IP_HC, HLIM (HL) is 10 and the hop limit field is compressed away		
	11	Feature	The compression makes use of the global prefix (SAC/DAC = 1, SAM/DAM=01/11)		
	12	Feature	The context identifier extension is not present (CID = 0)		
	13	Check	Dispatch value in 6LowPAN packet is "011TFxHL"		
Notes:	<ul> <li>The feature tests check that good compression is used (but this is not a requirement for interoperability)</li> <li>The Echo Reply message might use a different hop limit in some implementations, then the HLIM value might also be different.</li> </ul>				

Interoperability Test Description					
Identifier:	TD_6Lo_ND_HC_02				
Objective:	Chec	Check that EUTs make use of context 0 (16-bit or other short address)			
Configuration:	Host	-6LR			
Technologies:	6LoV	VPAN, 6Lo	BAC, NFC, LoWPANz		
Level:	adva	nced			
References:	RFC	6775 5.4,	RFC 6282 3.1.1		
Pre-test conditions:	• ÈU	<ul> <li>(6LoWPAN:) Header compression is enabled on both EUT1 and EUT2</li> <li>EUT1 and EUT2 are configured to use 16-bit or other short address</li> <li>EUT1 and EUT2 are configured with a default hop limit of 64</li> </ul>			
Test Sequence:	Step	Туре	Description		
	0	Stimulus	Host is set up with 6LR and receives context 0 for the global prefix		
	1	Stimulus	<ul> <li>EUT1 initiates an echo request to EUT2's GP16 address</li> <li>ICMP payload = 4 bytes, total IPv6 size 52 bytes</li> <li>Hop Limit is 64, no traffic class or flow label is being used</li> </ul>		
	2	Check	EUT1 sends a 6LoWPAN packet containing the Echo Request message to EUT2		
	3	Feature	In IP_HC, TF is 11 and the ecn, dscp and flow label fields are compressed away		
	4	Feature	In IP_HC, HLIM (HL) is 10 and the hop limit field is compressed away		
	5	Feature	The compression makes use of the global prefix (SAC/DAC = 1, SAM/DAM=10/11)		
	6	Feature	The context identifier extension is not present (CID = 0)		
	7	Check	Dispatch value in 6LowPAN packet is "011TFxHL"		
	8	Verify	EUT2 receives the Echo Request message from EUT1		
	9	Check	EUT2 sends a compressed 6LoWPAN packet containing the Echo Reply message to EUT1		
	10	Feature	In IP_HC, HLIM (HL) is 10 and the hop limit field is compressed away		
	11	Feature	The compression makes use of the global prefix (SAC/DAC = 1, SAM/DAM=10/11)		
	12	Feature	The context identifier extension is not present (CID = 0)		
	13	Check	Dispatch value in 6LowPAN packet is "011TFxHL"		
Notes:	<ul> <li>The feature tests check that good compression is used (but this is not a requirement for interoperability)</li> <li>The Echo Reply message might use a different hop limit in some implementations, then the HLIM value might also be different.</li> </ul>				

Interoperability Test Description					
Identifier:	TD_6Lo_ND_HC_03				
Objective:	Chec	Check that EUTs make use of context ≠ 0 (EUI-64 or other long address)			
Configuration:	Host-	-6LR			
Technologies:	6LoV	VPAN, BT	LE, DECT		
Level:	adva	nced			
References:	RFC	6775 5.4,	RFC 6282 3.1.2		
Pre-test conditions:	• EU	<ul> <li>(6LoWPAN:) Header compression is enabled on both EUT1 and EUT2</li> <li>EUT1 and EUT2 are configured to use EUI-64 or other long address</li> <li>EUT1 and EUT2 are configured with a default hop limit of 64</li> </ul>			
Test Sequence:	Step	Туре	Description		
	0	Stimulus	Host is set up with 6LR and receives context ≠ 0 for the global prefix		
	1	Stimulus	<ul> <li>EUT1 initiates an echo request to EUT2's GP64 address</li> <li>ICMP payload = 4 bytes, total IPv6 size 52 bytes</li> <li>Hop Limit is 64, no traffic class or flow label is being used</li> </ul>		
	2	Check	EUT1 sends a 6LoWPAN packet containing the Echo Request message to EUT2		
	3	Feature	In IP_HC, TF is 11 and the ecn, dscp and flow label fields are compressed away		
	4	Feature	In IP_HC, HLIM (HL) is 10 and the hop limit field is compressed away		
	5	Feature	The compression makes use of the global prefix (SAC/DAC = 1, SAM/DAM=01/11)		
	6	Check	A Context Identifier Extension (CID) is used for this		
	7	Check	Dispatch value in 6LowPAN packet is "011TFxHL"		
	8	Verify	EUT2 receives the Echo Request message from EUT1		
	9	Check	EUT2 sends a compressed 6LoWPAN packet containing the Echo Reply message to EUT1		
	10	Feature	In IP_HC, HLIM (HL) is 10 and the hop limit field is compressed away		
	11	Feature	The compression makes use of the global prefix (SAC/DAC = 1, SAM/DAM=01/11)		
	12	Check	A Context Identifier Extension (CID) is used for this		
	13	Check	Dispatch value in 6LowPAN packet is "011TFxHL"		
Notes:	<ul> <li>The feature tests check that good compression is used (but this is not a requirement for interoperability)</li> <li>The Echo Reply message might use a different hop limit in some implementations, then the HLIM value might also be different.</li> </ul>				

Interoperability Test Description					
Identifier:	TD_6	TD_6Lo_ND_HC_04			
Objective:	Chec	Check that EUTs make use of context ≠ 0 (16-bit or other short address)			
Configuration:	Host	-6LR			
Technologies:	6LoV	VPAN, 6Lo	BAC, NFC, LoWPANz		
Level:	adva	nced			
References:	RFC	6775 5.4,	RFC 6282 3.1.2		
Pre-test conditions:	• ÈU	<ul> <li>(6LoWPAN:) Header compression is enabled on both EUT1 and EUT2</li> <li>EUT1 and EUT2 are configured to use 16-bit or other short address</li> <li>EUT1 and EUT2 are configured with a default hop limit of 64</li> </ul>			
Test Sequence:	Step	Туре	Description		
	0	Stimulus	Host is set up with 6LR and receives context ≠ 0 for the global prefix		
	1	Stimulus	<ul> <li>EUT1 initiates an echo request to EUT2's GP16 address</li> <li>ICMP payload = 4 bytes, total IPv6 size 52 bytes</li> <li>Hop Limit is 64, no traffic class or flow label is being used</li> </ul>		
	2	Check	EUT1 sends a 6LoWPAN packet containing the Echo Request message to EUT2		
	3	Feature	In IP_HC, TF is 11 and the ecn, dscp and flow label fields are compressed away		
	4	Feature	In IP_HC, HLIM (HL) is 10 and the hop limit field is compressed away		
	5	Feature	The compression makes use of the global prefix (SAC/DAC = 1, SAM/DAM=10/11)		
	6	Check	A Context Identifier Extension (CID) is used for this		
	7	Check	Dispatch value in 6LowPAN packet is "011TFxHL"		
	8	Verify	EUT2 receives the Echo Request message from EUT1		
	9	Check	EUT2 sends a compressed 6LoWPAN packet containing the Echo Reply message to EUT1		
	10	Feature	In IP_HC, HLIM (HL) is 10 and the hop limit field is compressed away		
	11	Feature	The compression makes use of the global prefix (SAC/DAC = 1, SAM/DAM=10/11)		
	12	Check	A Context Identifier Extension (CID) is used for this		
	13	Check	Dispatch value in 6LowPAN packet is "011TFxHL"		
Notes:	<ul> <li>The feature tests check that good compression is used (but this is not a requirement for interoperability)</li> <li>The Echo Reply message might use a different hop limit in some implementations, then the HLIM value might also be different.</li> </ul>				