

Interoperability Test Description			
<b>Identifier:</b>	TD_6Lo_FORMAT_01		
<b>Objective:</b>	Check that EUTs correctly handle uncompressed 6LoWPAN packets (EUI-64 link-local)		
<b>Configuration:</b>	Node-Node		
<b>Technologies:</b>	6LoWPAN only		
<b>References:</b>	RFC 4944 5.1, 8; RFC 6775 5.6		
<b>Pre-test conditions:</b>	<ul style="list-style-type: none"> <li>Header compression is disabled on both EUT1 and EUT2</li> <li>EUT1 and EUT2 are configured to use EUI-64</li> </ul>		
<b>Test Sequence:</b>	Step	Type	Description
	0	Stimulus	<ul style="list-style-type: none"> <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 style="list-style-type: none"> <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 style="list-style-type: none"> <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			
<b>Identifier:</b>	TD_6Lo_FORMAT_02		
<b>Objective:</b>	Check that EUTs correctly handle uncompressed 6LoWPAN packets (16-bit short link-local)		
<b>Configuration:</b>	Node-Node		
<b>Technologies:</b>	6LoWPAN only		
<b>References:</b>	RFC 4944 5.1, 8; RFC 6775 5.6		
<b>Pre-test conditions:</b>	<ul style="list-style-type: none"> <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>		
<b>Test Sequence:</b>	Step	Type	Description
	0	Stimulus	<ul style="list-style-type: none"> <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 style="list-style-type: none"> <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 style="list-style-type: none"> <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

Interoperability Test Description			
<b>Identifier:</b>	TD_6Lo_FORMAT_03		
<b>Objective:</b>	Check that EUTs correctly handle uncompressed 6LoWPAN fragmented packets		
<b>Configuration:</b>	Node-Node		
<b>Technologies:</b>	6LoWPAN only		
<b>References:</b>	RFC 4944 5.1, 5.3; RFC 6775 5.6		
<b>Pre-test conditions:</b>	Header compression is disabled on both EUT1 and EUT2		
<b>Test Sequence:</b>	Step	Type	Description
	0	Stimulus	<ul style="list-style-type: none"> <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 style="list-style-type: none"> <li>EUT1 sends a sequence of uncompressed 6LoWPAN packets containing the Echo Request fragments to EUT2</li> <li>EUT1 correctly fragments the Echo Request: <ul style="list-style-type: none"> <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> </li> </ul>
	2	Verify	EUT2 reassembles correctly the fragments and receives the Echo Request message from EUT1
	3	Check	<ul style="list-style-type: none"> <li>EUT2 sends a sequence of uncompressed 6LoWPAN packets containing the Echo Reply message to EUT1</li> <li>EUT1 correctly fragments the Echo Reply: <ul style="list-style-type: none"> <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> </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

Interoperability Test Description			
<b>Identifier:</b>	TD_6Lo_FORMAT_04		
<b>Objective:</b>	Check that EUTs correctly handle maximum size uncompressed 6LoWPAN fragmented packets		
<b>Configuration:</b>	Node-Node		
<b>Technologies:</b>	6LoWPAN only		
<b>References:</b>	RFC 4944 5.1, 5.3; RFC 6775 5.6		
<b>Pre-test conditions:</b>	Header compression is disabled on both EUT1 and EUT2		
<b>Test Sequence:</b>	Step	Type	Description
	0	Stimulus	<ul style="list-style-type: none"> <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 style="list-style-type: none"> <li>EUT1 sends a sequence of uncompressed 6LoWPAN packets containing the Echo Request fragments to EUT2</li> <li>EUT1 correctly fragments the Echo Request: <ul style="list-style-type: none"> <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> </li> </ul>
	2	Verify	EUT2 reassembles correctly the fragments and receives the Echo Request message from EUT1
	3	Check	<ul style="list-style-type: none"> <li>EUT2 sends a sequence of uncompressed 6LoWPAN packets containing the Echo Reply message to EUT1</li> <li>EUT1 correctly fragments the Echo Reply: <ul style="list-style-type: none"> <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> </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

Interoperability Test Description			
<b>Identifier:</b>	TD_6Lo_FORMAT_05		
<b>Objective:</b>	Check that EUTs correctly handle uncompressed 6LoWPAN multicast to all-nodes (16-bit short link-local)		
<b>Configuration:</b>	Node-Node		
<b>Technologies:</b>	6LoWPAN only		
<b>References:</b>	RFC 4944 5.1, 8; RFC 6775 5.6		
<b>Pre-test conditions:</b>	<ul style="list-style-type: none"> <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>		
<b>Test Sequence:</b>	Step	Type	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

Interoperability Test Description			
<b>Identifier:</b>	TD_6Lo_FORMAT_06		
<b>Objective:</b>	Check that EUTs correctly handle uncompressed 6LoWPAN multicast to all-nodes (EUI-64 link-local)		
<b>Configuration:</b>	Node-Node		
<b>Technologies:</b>	6LoWPAN only		
<b>References:</b>	RFC 4944 5.1, 8; RFC 6775 5.6		
<b>Pre-test conditions:</b>	<ul style="list-style-type: none"> <li>Header compression is disabled on both EUT1 and EUT2</li> <li>EUT1 and EUT2 are configured to use EUI-64</li> </ul>		
<b>Test Sequence:</b>	Step	Type	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

Interoperability Test Description			
<b>Identifier:</b>	TD_6Lo_FORMAT_07		
<b>Objective:</b>	Check that EUTs correctly handle uncompressed 6LoWPAN packets (EUI-64 to 16-bit short link-local)		
<b>Configuration:</b>	Node-Node		
<b>Technologies:</b>	6LoWPAN only		
<b>References:</b>	RFC 4944 5.1, 8; RFC 6775 5.6		
<b>Pre-test conditions:</b>	<ul style="list-style-type: none"> <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>		
<b>Test Sequence:</b>	Step	Type	Description
	0	Stimulus	<ul style="list-style-type: none"> <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 style="list-style-type: none"> <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 style="list-style-type: none"> <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

Interoperability Test Description			
<b>Identifier:</b>	TD_6Lo_FORMAT_08		
<b>Objective:</b>	Check that EUTs correctly handle uncompressed 6LoWPAN packets (16-bit short to EUI-64 link-local)		
<b>Configuration:</b>	Node-Node		
<b>Technologies:</b>	6LoWPAN only		
<b>References:</b>	RFC 4944 5.1, 8; RFC 6775 5.6		
<b>Pre-test conditions:</b>	<ul style="list-style-type: none"> <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>		
<b>Test Sequence:</b>	Step	Type	Description
	0	Stimulus	<ul style="list-style-type: none"> <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 style="list-style-type: none"> <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 style="list-style-type: none"> <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



Interoperability Test Description			
<b>Identifier:</b>	TD_6Lo_FORMAT_09		
<b>Objective:</b>	Check that EUTs correctly handle token passing/maintenance at 115.2 kbit/s and correctly handle a basic 6Lo packet (link-local)		
<b>Configuration:</b>	6LBR-2Host, bus topology		
<b>Technologies:</b>	6LoBAC only		
<b>References:</b>	BACnet Clause 9 [10], BACnet MS/TP Conformance Test [11], RFC 6282, draft-ietf-6lobac		
<b>Pre-test conditions:</b>	<ul style="list-style-type: none"> <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>		
<b>Test Sequence:</b>	Step	Type	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 style="list-style-type: none"> <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 style="list-style-type: none"> <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 style="list-style-type: none"> <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			
<b>Identifier:</b>	TD_6Lo_HC_01		
<b>Objective:</b>	Check that EUTs correctly handle compressed 6LoWPAN packets (EUI-64 or other long address link-local, hop limit=64)		
<b>Configuration:</b>	Node-Node		
<b>Technologies:</b>	6LoWPAN, BTLE, DECT		
<b>References:</b>	RFC 6282 section 3; RFC 6775 5.6		
<b>Pre-test conditions:</b>	<ul style="list-style-type: none"> <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>		
<b>Test Sequence:</b>	Step	Type	Description
	0	Stimulus	<ul style="list-style-type: none"> <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
<b>Notes:</b>	<ul style="list-style-type: none"> <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			
<b>Identifier:</b>	TD_6Lo_HC_02		
<b>Objective:</b>	Check that EUTs correctly handle compressed 6LoWPAN packets (16-bit or other short address link-local, hop limit=64)		
<b>Configuration:</b>	Node-Node		
<b>Technologies:</b>	6LoWPAN, 6LoBAC, NFC, LoWPANz		
<b>References:</b>	RFC 6282 section 3; RFC 6775 5.6		
<b>Pre-test conditions:</b>	<ul style="list-style-type: none"> <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>		
<b>Test Sequence:</b>	Step	Type	Description
	0	Stimulus	<ul style="list-style-type: none"> <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
<b>Notes:</b>	<ul style="list-style-type: none"> <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			
<b>Identifier:</b>	TD_6Lo_HC_03		
<b>Objective:</b>	Check that EUTs correctly handle compressed 6LoWPAN packets (EUI-64 or other long address link-local, hop limit=63)		
<b>Configuration:</b>	Node-Node		
<b>Technologies:</b>	6LoWPAN, BTLE, DECT		
<b>References:</b>	RFC 6282 section 3; RFC 6775 5.6		
<b>Pre-test conditions:</b>	<ul style="list-style-type: none"> <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>		
<b>Test Sequence:</b>	Step	Type	Description
	0	Stimulus	<ul style="list-style-type: none"> <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
<b>Notes:</b>	<ul style="list-style-type: none"> <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			
<b>Identifier:</b>	TD_6Lo_HC_04		
<b>Objective:</b>	Check that EUTs correctly handle compressed 6LoWPAN packets (16-bit or other short address link-local, hop limit=63)		
<b>Configuration:</b>	Node-Node		
<b>Technologies:</b>	6LoWPAN, 6LoBAC, NFC, LoWPANz		
<b>References:</b>	RFC 6282 section 3; RFC 6775 5.6		
<b>Pre-test conditions:</b>	<ul style="list-style-type: none"> <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 63</li> </ul>		
<b>Test Sequence:</b>	Step	Type	Description
	0	Stimulus	<ul style="list-style-type: none"> <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
<b>Notes:</b>	<ul style="list-style-type: none"> <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			
<b>Identifier:</b>	TD_6Lo_HC_05		
<b>Objective:</b>	Check that EUTs correctly handle compressed UDP packets (EUI-64 or other long address, server port 5683)		
<b>Configuration:</b>	Host-6LR		
<b>Technologies:</b>	6LoWPAN, BTLE, DECT		
<b>References:</b>	RFC 6282, 4.3		
<b>Pre-test conditions:</b>	<ul style="list-style-type: none"> <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>		
<b>Test Sequence:</b>	Step	Type	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
<b>Notes:</b>	The feature tests check that best compression is used (but this is not a requirement for interoperability)		

Interoperability Test Description			
<b>Identifier:</b>	TD_6Lo_HC_06		
<b>Objective:</b>	Check that EUTs correctly handle compressed UDP packets (16-bit or other short address, server port 5683)		
<b>Configuration:</b>	Host-6LR		
<b>Technologies:</b>	6LoWPAN, 6LoBAC, NFC, LoWPANz		
<b>References:</b>	RFC 6282, 4.3		
<b>Pre-test conditions:</b>	<ul style="list-style-type: none"> <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>		
<b>Test Sequence:</b>	Step	Type	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
<b>Notes:</b>	The feature tests check that best compression is used (but this is not a requirement for interoperability)		

Interoperability Test Description			
<b>Identifier:</b>	TD_6Lo_HC_07		
<b>Objective:</b>	Check that EUTs correctly handle compressed UDP packets (EUI-64 or other long address, server port 61616)		
<b>Configuration:</b>	Host-6LR		
<b>Technologies:</b>	6LoWPAN, BTLE, DECT		
<b>References:</b>	RFC 6282, 4.3		
<b>Pre-test conditions:</b>	<ul style="list-style-type: none"> <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>		
<b>Test Sequence:</b>	Step	Type	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
<b>Notes:</b>	The feature tests check that best compression is used (but this is not a requirement for interoperability)		



Interoperability Test Description			
<b>Identifier:</b>	TD_6Lo_HC_08		
<b>Objective:</b>	Check that EUTs correctly handle compressed UDP packets (16-bit or other short address, server port 61616)		
<b>Configuration:</b>	Host-6LR		
<b>Technologies:</b>	6LoWPAN, 6LoBAC, NFC, LoWPANz		
<b>References:</b>	RFC 6282, 4.3		
<b>Pre-test conditions:</b>	<ul style="list-style-type: none"> <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>		
<b>Test Sequence:</b>	Step	Type	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
<b>Notes:</b>	The feature tests check that best compression is used (but this is not a requirement for interoperability)		

Interoperability Test Description			
<b>Identifier:</b>	TD_6Lo_HC_09		
<b>Objective:</b>	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)		
<b>Configuration:</b>	Node-Node		
<b>Technologies:</b>	6LoWPAN only		
<b>References:</b>	RFC 6282 section 3; RFC 6775 5.6		
<b>Pre-test conditions:</b>	<ul style="list-style-type: none"> <li>(6LoWPAN:) Header compression is enabled 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>		
<b>Test Sequence:</b>	Step	Type	Description
	0	Stimulus	<ul style="list-style-type: none"> <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
<b>Notes:</b>	<ul style="list-style-type: none"> <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			
<b>Identifier:</b>	TD_6Lo_HC_10		
<b>Objective:</b>	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)		
<b>Configuration:</b>	Node-Node		
<b>Technologies:</b>	6LoWPAN only		
<b>References:</b>	RFC 6282 section 3; RFC 6775 5.6		
<b>Pre-test conditions:</b>	<ul style="list-style-type: none"> <li>(6LoWPAN:) Header compression is enabled 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>		
<b>Test Sequence:</b>	Step	Type	Description
	0	Stimulus	<ul style="list-style-type: none"> <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
<b>Notes:</b>	<ul style="list-style-type: none"> <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			
<b>Identifier:</b>	TD_6Lo_ND_01		
<b>Objective:</b>	Check that a host is able to register its global IPv6 address (EUI-64 or other long address)		
<b>Configuration:</b>	Host-6LR		
<b>Technologies:</b>	6LoWPAN, BTLE, DECT		
<b>References:</b>	RFC 6775 10.2		
<b>Pre-test conditions:</b>	<ul style="list-style-type: none"> <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> </ul>		
<b>Test Sequence:</b>	Step	Type	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 style="list-style-type: none"> <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 style="list-style-type: none"> <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
<b>Notes:</b>	The Echo Reply message might use a different hop limit in some implementations, then the HLIM value might also be different.		

Interoperability Test Description			
<b>Identifier:</b>	TD_6Lo_ND_02		
<b>Objective:</b>	Check that a host is able to register its global IPv6 address (16-bit or other short address)		
<b>Configuration:</b>	Host-6LR		
<b>Technologies:</b>	6LoWPAN, 6LoBAC, NFC, LoWPANz		
<b>References:</b>	RFC 6775 10.2		
<b>Pre-test conditions:</b>	<ul style="list-style-type: none"> <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> </ul>		
<b>Test Sequence:</b>	Step	Type	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 style="list-style-type: none"> <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 style="list-style-type: none"> <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
<b>Notes:</b>	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_6Lo_ND_03		
Objective:	Check Host NUD behavior		
Configuration:	Host-6LR		
Technologies:	all		
References:	RFC 6775 5.5		
Pre-test conditions:	<ul style="list-style-type: none"><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	Type	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			
<b>Identifier:</b>	TD_6Lo_ND_04		
<b>Objective:</b>	Check 6LR NUD behavior (ICMP version)		
<b>Configuration:</b>	Host-6LR		
<b>Technologies:</b>	all		
<b>References:</b>	RFC 6775 5.5		
<b>Pre-test conditions:</b>	<ul style="list-style-type: none"> <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>		
<b>Test Sequence:</b>	Step	Type	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
<b>Notes:</b>	Optional, as not all hosts allow disabling echo reply function		

Interoperability Test Description			
<b>Identifier:</b>	TD_6Lo_ND_05		
<b>Objective:</b>	Check 6LR NUD behavior (UDP version)		
<b>Configuration:</b>	Host-6LR		
<b>Technologies:</b>	all		
<b>References:</b>	RFC 6775 5.5		
<b>Pre-test conditions:</b>	<ul style="list-style-type: none"> <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>		
<b>Test Sequence:</b>	Step	Type	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
<b>Notes:</b>	Optional, as not all hosts allow disabling CoAP server function		



Interoperability Test Description			
<b>Identifier:</b>	TD_6Lo_ND_06		
<b>Objective:</b>	Check host behavior under multiple prefixes (EUI-64 or other long address)		
<b>Configuration:</b>	Host-6LR		
<b>Technologies:</b>	6LoWPAN, BTLE, DECT		
<b>References:</b>	RFC 4861 3.1		
<b>Pre-test conditions:</b>	<ul style="list-style-type: none"> <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>		
<b>Test Sequence:</b>	Step	Type	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 style="list-style-type: none"> <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 style="list-style-type: none"> <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
<b>Notes:</b>	<ul style="list-style-type: none"> <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			
<b>Identifier:</b>	TD_6Lo_ND_07		
<b>Objective:</b>	Check host behavior under multiple prefixes (16-bit or other short address)		
<b>Configuration:</b>	Host-6LR		
<b>Technologies:</b>	6LoWPAN, 6LoBAC, NFC, LoWPANz		
<b>References:</b>	RFC 4861 3.1		
<b>Pre-test conditions:</b>	<ul style="list-style-type: none"> <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>		
<b>Test Sequence:</b>	Step	Type	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 style="list-style-type: none"> <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 style="list-style-type: none"> <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
<b>Notes:</b>	<ul style="list-style-type: none"> <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			
<b>Identifier:</b>	TD_6Lo_ND_HC_01		
<b>Objective:</b>	Check that EUTs make use of context 0 (EUI-64 or other long address)		
<b>Configuration:</b>	Host-6LR		
<b>Technologies:</b>	6LoWPAN, BTLE, DECT		
<b>References:</b>	RFC 6775 5.4, RFC 6282 3.1.1		
<b>Pre-test conditions:</b>	<ul style="list-style-type: none"> <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>		
<b>Test Sequence:</b>	Step	Type	Description
	0	Stimulus	Host is set up with 6LR and receives context 0 for the global prefix
	1	Stimulus	<ul style="list-style-type: none"> <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"
<b>Notes:</b>	<ul style="list-style-type: none"> <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			
<b>Identifier:</b>	TD_6Lo_ND_HC_02		
<b>Objective:</b>	Check that EUTs make use of context 0 (16-bit or other short address)		
<b>Configuration:</b>	Host-6LR		
<b>Technologies:</b>	6LoWPAN, 6LoBAC, NFC, LoWPANz		
<b>References:</b>	RFC 6775 5.4, RFC 6282 3.1.1		
<b>Pre-test conditions:</b>	<ul style="list-style-type: none"> <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>		
<b>Test Sequence:</b>	Step	Type	Description
	0	Stimulus	Host is set up with 6LR and receives context 0 for the global prefix
	1	Stimulus	<ul style="list-style-type: none"> <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"
<b>Notes:</b>	<ul style="list-style-type: none"> <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			
<b>Identifier:</b>	TD_6Lo_ND_HC_03		
<b>Objective:</b>	Check that EUTs make use of context $\neq 0$ (EUI-64 or other long address)		
<b>Configuration:</b>	Host-6LR		
<b>Technologies:</b>	6LoWPAN, BTLE, DECT		
<b>References:</b>	RFC 6775 5.4, RFC 6282 3.1.2		
<b>Pre-test conditions:</b>	<ul style="list-style-type: none"> <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>		
<b>Test Sequence:</b>	Step	Type	Description
	0	Stimulus	Host is set up with 6LR and receives context $\neq 0$ for the global prefix
	1	Stimulus	<ul style="list-style-type: none"> <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"
<b>Notes:</b>	<ul style="list-style-type: none"> <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			
<b>Identifier:</b>	TD_6Lo_ND_HC_04		
<b>Objective:</b>	Check that EUTs make use of context $\neq 0$ (16-bit or other short address)		
<b>Configuration:</b>	Host-6LR		
<b>Technologies:</b>	6LoWPAN, 6LoBAC, NFC, LoWPANz		
<b>References:</b>	RFC 6775 5.4, RFC 6282 3.1.2		
<b>Pre-test conditions:</b>	<ul style="list-style-type: none"> <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>		
<b>Test Sequence:</b>	Step	Type	Description
	0	Stimulus	Host is set up with 6LR and receives context $\neq 0$ for the global prefix
	1	Stimulus	<ul style="list-style-type: none"> <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"
<b>Notes:</b>	<ul style="list-style-type: none"> <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>		