

















# LNet Road Map

This page outlines the LNet features that are either being implemented or being considered for implementation.

## Active and Future Projects

Name	Assigned Release	Jira Ticket	Scope & Requirements Document	High-level Design Document
LNet Unit Test Framework (LUTF) - Move up	Lustre 2.13+	 <a href="#">LU-10973</a> - LNet Unit Test Framework (LUTF) Autotest Integration <span>OPEN</span>	<a href="#">LNet Unit Test Infrastructure (LUTF) Requirements</a>	<a href="#">LUTF High Level Design</a>
IPv6 Support	Lustre 2.14+	 <a href="#">LU-10394</a> - LNET: Support IPv6 <span>RESOLVED</span>	Neil Brown is currently working on it	
Dynamic NIDs	Lustre 2.14+	 <a href="#">LU-10360</a> - use Imperative Recovery logs for client->MDT/OST connections <span>OPEN</span>	<a href="#">Dynamic NIDs</a>	<a href="#">High Level Design</a>
LNet Statistics improvement	Lustre 2.14+	 <a href="#">LU-14040</a> - Improve LNet Statistics <span>OPEN</span>	<a href="#">LNet Sysfs Requirements</a>	<a href="#">LNet Sysfs HLD</a>
Socklnd Improvements	Lustre 2.14+	 <a href="#">LU-14064</a> - socklnd needs improved interface selection and configuration <span>OPEN</span>		
New Fast Memory registration		 <a href="#">LU-8874</a> - Adapt ko2iblnd to latest RDMA changes <span>OPEN</span>		
CQ Polling API		 <a href="#">LU-8874</a> - Adapt ko2iblnd to latest RDMA changes <span>OPEN</span>		
Draining QP		 <a href="#">LU-8874</a> - Adapt ko2iblnd to latest RDMA changes <span>OPEN</span>		
Inet_selftest improvement		 <a href="#">LU-10975</a> - LNet self_test improvements <span>OPEN</span>		
SWIM Protocol for Network Discovery		 <a href="#">LU-9238</a> - Enhancement for route failure detection <span>OPEN</span>		
Lustre traffic QoS		 <a href="#">LU-9880</a> - Make ko2iblnd service option configurable via DLC <span>OPEN</span>		
Files ystem Timeout alignment		 <a href="#">LU-14081</a> - Filesystem timeout alignment <span>OPEN</span>		
LNet beyond Lustre			<a href="#">Preliminary Requirements</a>	
LNet Control Messages			<p>A proposed feature by Alexey Lyashkov.</p> <p>LNet should have something like an ICMP, to have the ability to report some bad situations to sender</p> <p>like:</p> <ul style="list-style-type: none"> <li>• destination MD/ME is not exist</li> <li>• link is failed after router</li> <li>• message rate to high, please to be slow.</li> </ul> <p><a href="#">Presentation that describes the issue</a></p>	
Correlating job stats with LNet stats		 <a href="#">LU-10976</a> - Correlate job stats with LNet stats <span>OPEN</span>		

# Completed Projects

Name	Assigned Release	Jira Ticket	Scope & Requirements Document	High-level Design Document
LNet Resiliency	Lustre 2.12	<div data-bbox="467 296 914 352">  <a href="#">LU-9120</a> - LNet Network Health Feature  <span>RESOLVED</span> </div>	<a href="#">LNet Resiliency Requirements</a>	<a href="#">LNet Resiliency HLD</a>  <a href="#">Presentation on timeouts from 2014 by Alexey Lyashkov</a>
LNet Router alignment	Lustre 2.13	<div data-bbox="467 438 914 495">  <a href="#">LU-11297</a> - Align LNet routing with Multi-Rail and LNet health <span>RESOLVED</span> </div>	<a href="#">Multi-Rail Routing Requirements</a>	<a href="#">Multi-Rail Routing Requirements Patch Description</a>
LNet UDSP (Router selection)	Lustre 2.13	<div data-bbox="467 522 914 579">  <a href="#">LU-9121</a> - Multi-Rail: User Defined Selection Policy <span>RESOLVED</span> </div>	<a href="#">UDSP Requirements</a>	<a href="#">UDSP HLD</a>