

















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+	 LU-10973 - LNet Unit Test Framework (LUTF) Autotest Integration OPEN	LNet Unit Test Infrastructure (LUTF) Requirements	LUTF High Level Design
IPv6 Support	Lustre 2.14+	 LU-10394 - LNET: Support IPv6 RESOLVED	Neil Brown is currently working on it	
Dynamic NIDs	Lustre 2.14+	 LU-10360 - use Imperative Recovery logs for client->MDT/OST connections OPEN	Dynamic NIDs	High Level Design
LNet Statistics improvement	Lustre 2.14+	 LU-14040 - Improve LNet Statistics OPEN	LNet Sysfs Requirements	LNet Sysfs HLD
Socklnd Improvements	Lustre 2.14+	 LU-14064 - socklnd needs improved interface selection and configuration OPEN		
New Fast Memory registration		 LU-8874 - Adapt ko2iblnd to latest RDMA changes OPEN		
CQ Polling API		 LU-8874 - Adapt ko2iblnd to latest RDMA changes OPEN		
Draining QP		 LU-8874 - Adapt ko2iblnd to latest RDMA changes OPEN		
Inet_selftest improvement		 LU-10975 - LNet self_test improvements OPEN		
SWIM Protocol for Network Discovery		 LU-9238 - Enhancement for route failure detection OPEN		
Lustre traffic QoS		 LU-9880 - Make ko2iblnd service option configurable via DLC OPEN		
Files ystem Timeout alignment		 LU-14081 - Filesystem timeout alignment OPEN		
LNet beyond Lustre			Preliminary Requirements	
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"> • destination MD/ME is not exist • link is failed after router • message rate to high, please to be slow. <p>Presentation that describes the issue</p>	
Correlating job stats with LNet stats		 LU-10976 - Correlate job stats with LNet stats OPEN		

Completed Projects

Name	Assigned Release	Jira Ticket	Scope & Requirements Document	High-level Design Document
LNet Resiliency	Lustre 2.12	 LU-9120 - LNet Network Health Feature RESOLVED	LNet Resiliency Requirements	LNet Resiliency HLD Presentation on timeouts from 2014 by Alexey Lyashkov
LNet Router alignment	Lustre 2.13	 LU-11297 - Align LNet routing with Multi-Rail and LNet health RESOLVED	Multi-Rail Routing Requirements	Multi-Rail Routing Requirements Patch Description
LNet UDSP (Router selection)	Lustre 2.13	 LU-9121 - Multi-Rail: User Defined Selection Policy RESOLVED	UDSP Requirements	UDSP HLD