

# Blackboard Help

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## Performance and Scalability of Blackboard Learn 9.1 April 2014

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Blackboard continuously invests in making Blackboard Learn more responsive and capable of handling greater volumes of user traffic with each release. This section of the release notes describes the performance and scalability issues addressed within this release of Blackboard Learn, as well new information about optimizing the configuration.

Clients identify issues through our traditional support channels and as a result of the performance and scalability exercises performed as part of all releases.

### Performance improvements

As part of the release, performance optimizations are introduced back into the product as a result of a customer issue or internally-discovered problem. The Blackboard Performance Engineering team is responsible for refactoring under-performing areas of the application and verifying regression improvements based on the optimization.

ID	Summary	Component
LRN-48580	Garbage collection log overwritten if wrapper restarts JVM	System Administration - System Config / History / Logs

LRN-62438	Learn startup time has increased significantly due to additional context initialisation overhead	System Performance - System Performance
LRN-65115	High CPU usage due to HashMap concurrency issue in CourseMapData	System Performance - System Performance
LRN-66506	Slow Discussion Loading	Discussion Board - Discussion Board
LRN-66730	Merge multi-db-operations into a db operation for improving the performance while updating the user mapping state	Connect Integration - Connect Integration
LRN-67051	SIS: Too many Buffer Gets against DATA_INTGR_ID_MAP_TMP during Snapshot Complete Refresh imports	Batch Tools / SIS - Snapshot
LRN-68270	PurgeAccumulator.sh is taking too long to run, which is allotting for less time to get other priority tasks completed overnight - Eliminate cursors and drop messages column	Batch Tools / SIS - Snapshot
LRN-69118	ContentStatusDbLoaderImpl.loadByCourseIdAndUserId() produces MSSQL plan instability when course has large course_contents	System Performance - System Performance
LRN-69968	EhCache RMICacheManagerPeerProvider hangs in lookupRemoteCachePeer (EHC-640)	System Performance - System Performance
LRN-70215	Increase bbconfig.peer.discovery.task.inactive's Value	System Performance - System Performance
LRN-71141	Connect User Sync task causes database spike resulting in system instability	System Infrastructure - Background Tasks/Services
LRN-71143	Heap exhaustion with course copy after submitting via the course copy creation wizard	Course Tools - Course Creation/ Course Wizard
LRN-71163	Extremely slow processing time for USR legacy snapshot feeds especially on Solaris environments	Batch Tools / SIS - Snapshot
LRN-71289	EWS' insert runs indefinitely	System Performance - System Performance
LRN-72252	High CPU usage due to HashMap concurrency issue in createCourseLinkMapForDB	System Performance - System Performance
LRN-72259	Suspected network latency causing Peer Discovery cache issue on Nodes for SIS Configuration changes	Batch Tools / SIS - Snapshot
LRN-72596	Fix loading artifacts from course slowness	Portfolios - Portfolios
LRN-72939	Poor Query Performance with Orphaned Content by Owner search	Content Management Administration/API - Content Management Administration
LRN-73100	Performance tuning in bulk deleting a set of portfolios by a user	Portfolios - Portfolios
LRN-73177	Discussion board query executed very often	System Performance - System Performance
LRN-73336	eud_stale_data_rm causes high tempdb usage.	Notifications - Notifications
LRN-73414	Add 1 new index on bblearn.ScormActivity(scorm_registration_id, is_latest_attempt) in top 10 expensive sqls by ivyTech real loading	System Performance - System Performance
LRN-73788	discussion board sql and index needs to be changed for best performance	System Performance - System Performance
LRN-73797	Frequent license component validity checks cause bottlenecks on LicenseUtil.getHashValue()	System Performance - System Performance
LRN-73800	Poor Oracle performance during course copy	System Performance - System Performance
LRN-73826	Deadlocks on bb_module table related to Bb Visualization B2	API & Integrations - Building Blocks: Blackboard Built
LRN-73835	Improve the performance for DeAnonymize sqls	System Performance - System Performance
LRN-74156	Refactor ContextualizedNodeAffiliateCache to have immutable CachedObjects	Community Management - Domains and Hierarchy
LRN-74266	Software Updates thread leaks	API & Integrations - Building Blocks
LRN-74274	Database CPU Spiking on Gradebook select statement	System Performance - System Performance
LRN-74571	Large REGISTRY_LONG_VALUE in USER_REGISTRY table caused OutOfMemoryError	System Performance - System Performance
LRN-74792	Content Area Availability page takes 20+ minutes to load and uses 4G heap	Content Management Administration/API - Content Management Administration
LRN-75026	BbServiceManagerImpl Hashtable read locks creates thread contention reducing read concurrency - need ConcurrentHashMap	System Performance - System Performance
	BbServiceManagerImpl Hashtable read locks creates thread contention reducing read	System Performance - System Performance

LRN-75057	concurrency - need ConcurrentHashMap	
LRN-75120	'maximum number of DatagramSockets reached' when running certain learn fixtures in fitness tests	Content System/ Course Files - Content System API
LRN-75130	Global Nav Cache invalidation problem while B2 extension changes at runtime	UI and Navigation - Navigation / Breadcrumb
LRN-75419	SCORM Content Not Being Properly Displayed	Course Content Management - SCORM Player
LRN-76086	Sustained High CPU Utilization From Threads Catching sun.font.TrueTypeFont FileNotFoundException	System Performance - System Performance
LRN-76162	Huge performance Overhead due to SecurityUtil.encodePassword() when performing SIS Integration on a User feed with a plain text password	Batch Tools / SIS - SIS
LRN-76165	Cache the result of LocaleManagerImpl.getLocale()	Unknown - Unknown
LRN-76166	Refactor FileUtilEx.mkdirs and invoking methods to eliminate repetitive java.io.File.exists() calls	API & Integrations - API
LRN-76200	Avoid to use HashTable for high concurrency	API & Integrations - API
LRN-76201	High sync time of BbPersistenceManager.getInstance(VirtualInstallation)	API & Integrations - API
LRN-76282	Poor performance for ETL_NON_AA_JOB task	System Performance - System Performance
LRN-76340	Empty values are not handled correctly between the SessionKey cache and the code that uses it	System Infrastructure - Session
LRN-76349	Avoid unnecessary use of @Transaction from many of the BrandingManager methods	Community Management - Brands
LRN-76467	Add missing foreign key indexes and remove duplicate indexes from some B2 modules	Achievements - Achievements
LRN-76740	Cache the user object when performing SIS Integration for User Secondary Institution Role	Batch Tools / SIS - SIS
LRN-76824	Fix the method-level synchronization of ExtensionManagerImpl.getExtensionCache due to its big overhead	API & Integrations - API
LRN-76874	Refactor ContentIsolationFilter.loadFileServerHostName() to eliminate its synchronization overhead	API & Integrations - API
LRN-76875	Synchronization Overhead on java.security.Policy.implies(ProtectionDomain, Permission) is significant under high concurrency	API & Integrations - API
LRN-77039	Eliminate collation specification from TAG table	System Infrastructure - Database and Schema Docs
LRN-77084	Caches are being flushed way too frequently on standalone server (not sure of impact on actual multi-server installs)	System Performance - System Performance
LRN-77201	We should allow our database connection pool to shrink	System Infrastructure - Database and Schema Docs
LRN-77203	Security Checks for property value reads on User/UserInfo objects cause high synchronization time on java.security.Policy.implies	API & Integrations - API
LRN-77204	Security policy checks cause concurrency issues	API & Integrations - API
LRN-77299	Wasteful code execution order in ContentDownloadServlet serveResource	Course Content Management - Content & Content Delivery
LRN-78522	Recurring ORA-30926 error are logged by the ETL_NON_AA_JOB on Swinburne Staging	System Performance - System Performance
LRN-78590	Cloud B2 issues hanging threads and crashes servers (Due to DNS outage)	System Performance - System Performance
LRN-78631	ExtendedDataMapping causes classloader overhead, poor performance	System Performance - System Performance
LRN-78717	Indexing improvements for LAYOUT queries	System Performance - System Performance
LRN-78730	Courses not accessible after creation on IvyTech clone environment due to course creation performance issue	System Performance - System Performance
LRN-78761	Cache initialisation hangs due to JMS initialisation being blocked	System Infrastructure - Background Tasks/Services
LRN-78787	Race condition in JavaScript grouping code causes JS groups to go missing	UI and Navigation - UI Infrastructure
	domain admin query cache not cleared with related	Community Management - Domains and Hierarchy

LRN-78968	actions in the institutional hierarchy	
	Fix the performance overhead of the call to trackContent in listContent.jsp when a content is not trackable	Course Content Management - Content & Content Delivery
LRN-79367		
	Alignment panel rendering in the Content Page is expensive and need to be cached	Standards / Assessment - Alignment
LRN-79368		

## To learn more

To learn more about performance, see [Performance Optimization](#).

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