

Home / Learn / Administrator / Self- and Managed-Hosting Deployments /
Release Notes for Learn Self- and Managed-Hosting /
Release Notes for Building Blocks

Release Notes for Analytics for Learn

 Looking for more information about Analytics for Learn? [Go to the Analytics for Learn overview page.](#)

Analytics for Learn Data Integration Building Block

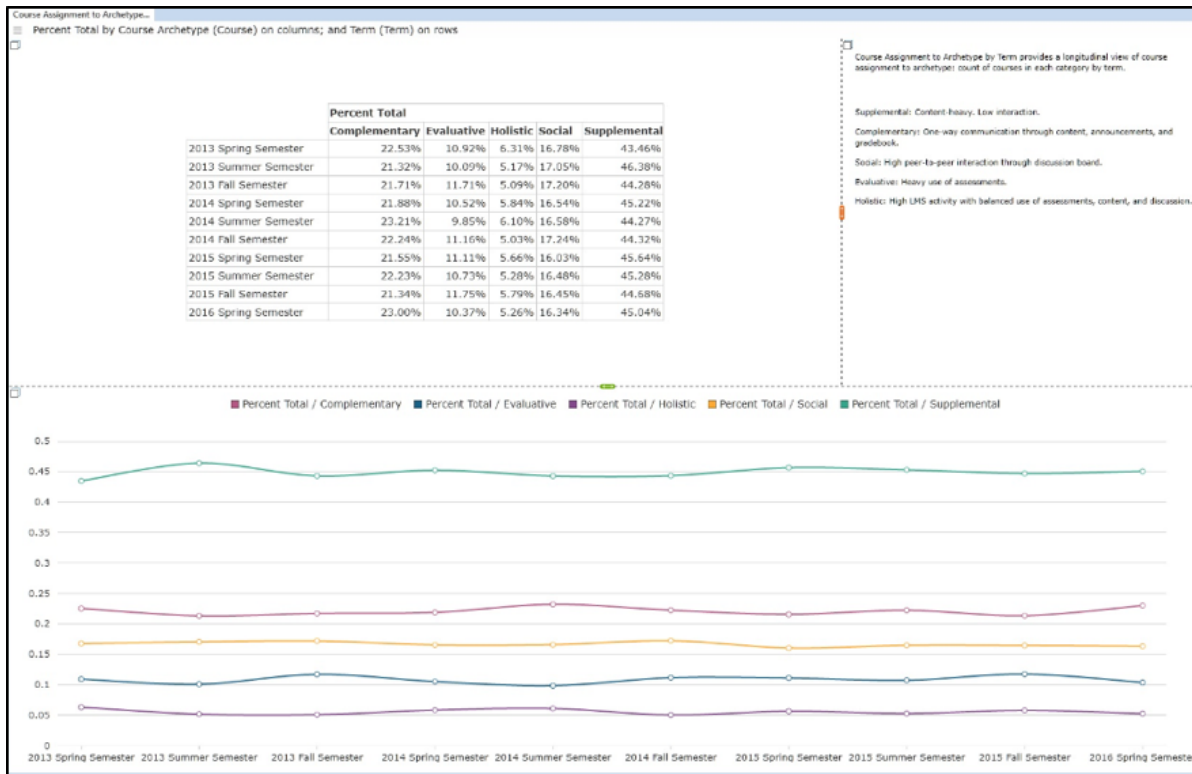
- **Version:** v.4.3.4
- **Dependencies:** Blackboard Learn 9.1 Service Pack 13 or later and other items
- **Release Date:** April 2017

The Release Notes provide System Administrators with information about the changes from the previous version to this most recent version of Learner Intelligence (formerly Analytics for Learn). These release notes cover version 4.3.4.

The current release focuses on bug fixes and introduces the new Course Archetype feature. This release is recommended for all customers of Analytics for Learn.

The list below provides some highlights of changes that we believe will affect most usage scenarios. Always review the entire document and consider how the information listed below affects your specific usage patterns.

- **Course Archetype** – New feature based on Dr. John Whitmer’s research categorizing courses into archetypes. Archetypes are assigned to courses by activity on course tools.



- **Available students filter** - Global switch to enable/disable filtering on student's availability has been added to allow for higher customization options to further extend the support of individual needs.
- **Learn Grade Quartile** - Calculation of Learn Grade Quartile is now using normalized score instead of score(absolute) so if the student is exempted from the assignment its resulted Grade Quartile is not negatively affected.

Prerequisites

- Analytics for Learn Version 4.3.3 – the upgrade will require version 4.3.3 of the A4L module to be installed and operational.
- Learn 9.1 must have Service Pack 13 or higher installed.

New features and enhancements

- SSRS - CAG - Add number of available course items
- SSRS - Global switch to enable/disable filtering on student's availability
- Course Archetype
- Consistent logic in Int/NonInt Activity Matrix and the Drill reports
- Additions to user removal procedure - include ability to remove based on specified patterns
- FactStudentCourseSummary - calculate Learn Grade Quartile using normalized score
- DimStudent - extend the current logic to include additional gender option – Indeterminate

Fixed bugs

- Learn Course At A Glance SSRS report - do not compare non-SIS courses to other non-SIS courses
- DimCourse.CourseAvailableIndicator transformation logic doesn't correspond to Learn logic since 9.1 SP8
- Omit generic session from activity data processing
- Availability indication of calendar events and tasks
- Internal timeout for activity sessions with large gaps
- Duplicated relation between gradebook grade and user
- Extend number of members on DimDayOfTerm
- Learn Course Use By College doesn't show average submissions
- Missing instructor metrics in Course Summary perspective
- Integrated Course Submission Summary report is missing values for Last Submissions
- Multiple web extract attempts
- Stage.HelperSourceActivityAccumulator fails due to Arithmetic overflow
- Configurable Calculation for Last Access Date
- Mismatch values in FactGradeCenter
- Advisor at a Glance SSRS report not correctly identifying primary/not primary advisors
- DimCourse and DimStudent - processing performance issue because of HEA.TranslateText functions in transform view
- Change Surrogate key datatype from int to bigint in Fact table
- HEA.RemoveIndex causes deadlock in HEA.PreWebExtract

Known Issues

No known issues.

Supported technologies

The following table describes the server and system prerequisites and optional components to be installed and configured prior to beginning the Blackboard Analytics installation process.

Server and software prerequisites

The following table describes the server and system prerequisites and optional components to be installed and configured prior to beginning the Blackboard Analytics installation process.

TECHNOLOGY	SUPPORTED CONFIGURATION
------------	-------------------------

TECHNOLOGY	SUPPORTED CONFIGURATION
Supported Operating Systems	<ul style="list-style-type: none"> • Microsoft Windows 2008 32-bit* • Microsoft Windows 2008 64-bit* • Microsoft Windows 2008 R2 32-bit* • Microsoft Windows 2008 R2 64-bit* • Microsoft Windows 2012 64-bit* <p>* with latest service pack</p>
Supported SQL Server Version	<ul style="list-style-type: none"> • Microsoft SQL Server 2008 R2 Enterprise Edition (32 or 64-bit)*+ • Microsoft SQL Server 2012 BI Edition (32 or 64-bit)* • Microsoft SQL Server 2012 Enterprise Edition (32 or 64-bit)* <p>* with latest service pack applied to all installed SQL Server components + Standard Edition is not supported</p>
Additional SQL Server Components and Install Options	<ul style="list-style-type: none"> • Analysis Services* • Integration Services • Reporting Services (optional) • SQL Server Management Studio • Business Intelligence Development Studio • SQL Server Default Collation: SQL_Latin1_General_CP1_CI_AS • Server Authentication: SQL Server and Windows Authentication mode <p>* In SQL Server 2012, Analysis Services must run in Multidimensional mode</p>
Application Server Requirements	<ul style="list-style-type: none"> • IIS 7.x or later • IIS Options: ASP.NET, Basic Authentication, Windows Authentication • .NET Framework 4.0

TECHNOLOGY	SUPPORTED CONFIGURATION
For Institutions with Oracle-based ERP Source databases	<ul style="list-style-type: none"> • Oracle Provider for OLE DB 32-bit** • Oracle Provider for OLE DB 64-bit** • Connectivity back to the Oracle database with an account having SELECT-only access <p>* Provider addressing architecture (32 or 64-bit) must match that of SQL Server + Provider can be downloaded from Oracle as part of Oracle Data Access Components Pack (ODAC)</p>
Optional Reporting Tools for Included Sample Reports to be installed on Application Server	<ul style="list-style-type: none"> • Microsoft SharePoint 2010 Enterprise Server* • Pyramid Analytics bioXL & bioPoint <p>* Standard Edition is not supported + Requires IIS Options: ASP, Server-side Includes</p>

Configuration notes

- Operating System and Memory
 - When choosing between the Standard and Enterprise Edition and the 32-bit or 64-bit version of the Windows operating system, be sure to understand the maximum amount of memory available under each configuration. The 64-bit version of the operating system is highly recommended, as is the 64-bit version of SQL Server.
- Server Virtualization
 - While it is possible to run Blackboard Analytics Intelligence modules in a virtual server environment, special consideration must be taken to effectively allocate server resources within the virtual environment to minimize contention with other servers in the shared environment.
 - Many institutions host the reporting server in a virtual environment, with a virtual machine configuration typical of any web or application server.
 - Institutions larger than 10,000+ FTE intending to virtualize the database server should plan on isolating server resources as described below for optimal performance:
 - CPU - The ETL process is resource intensive and optimized to load as much data as possible in as little time as possible. All available CPU resources will be used to load as much in parallel as possible, so dedicating physical cores to the database server virtual machine is recommended. It is not uncommon for all available CPUs to run above 90-95% utilization during Analysis Services cube reprocessing, so adding the overhead of managing virtual cores will result in performance degradation.
 - Disk - During the ETL process, large amounts of data will be written, read and re-written to disk throughout the various ETL stages (e.g. source copy schema to staging schema to final reporting schema), so dedicated disk groups within the virtual environment are

recommended to minimize disk contention with other virtual machines sharing the same disk subsystem. Please see the *BbAnalytics Disk Configuration Considerations* guide for more information on this topic.

Release Notes for Earlier Versions

Release notes for earlier versions are available in English only.

- [Release Notes for Analytics for Learn - 4.3.3](#)
- [Release Notes for Analytics for Learn - 4.3.2](#)
- [Release Notes for Analytics for Learn - 4.3.1](#)
- [Release Notes for Analytics for Learn - June 2015](#)
- [Release Notes for Analytics for Learn - November 2014](#)
- [Release Notes for Analytics for Learn - March 2013](#)

© Copyright 2017 Blackboard Inc.