

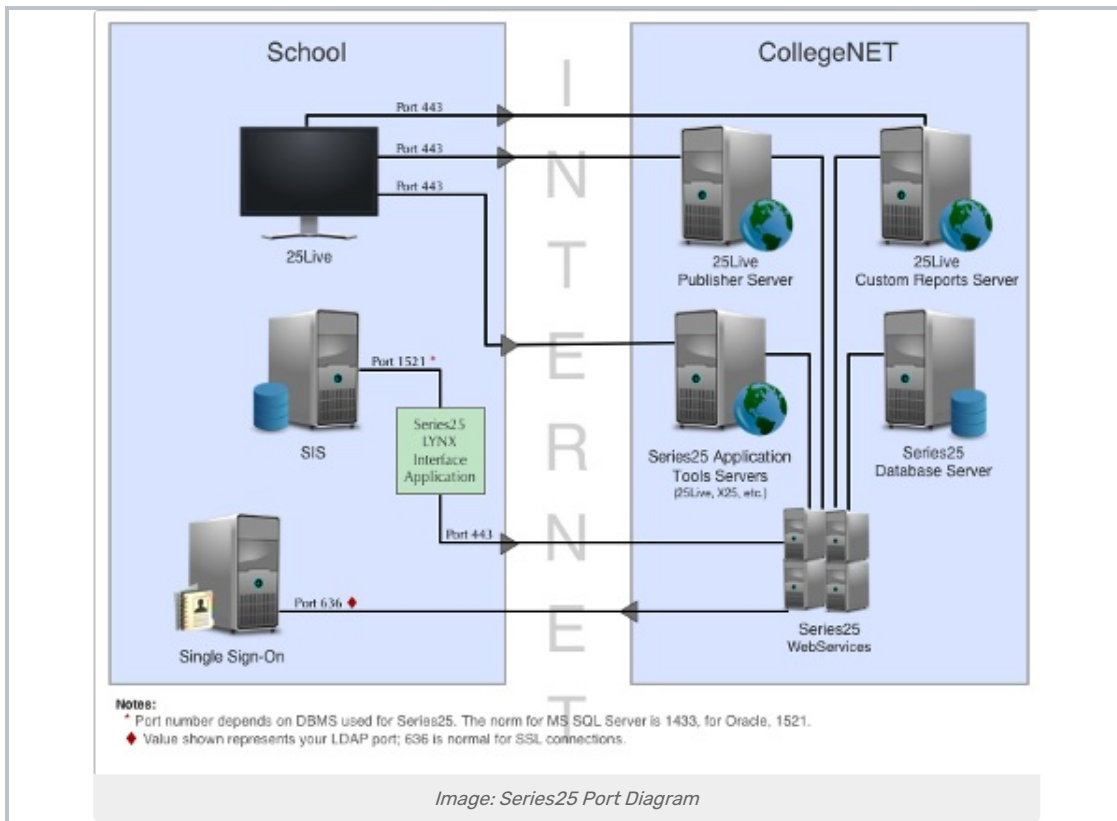
## Series25 Technical Specifications

### In This Article:

- [Port Usage](#)
- [Web Browsers](#)
- [Single Sign-On \(optional\)](#)
- [Series25 LYNX Interface](#)
- [Running Reports](#)
- [StandOut Classroom](#)

### Port Usage

With a Software as a Service (SaaS) deployment of Series25®, all data and tools reside on CollegeNET servers, and users access everything via the Internet over secure connections. The diagram below shows standard port numbers used for connections, with arrows indicating the direction of initial requests.



→ Direction of Initial Request →

Port

→ Direction of Initial Request →		Port
25Live	Series25 Application Tools Servers Publisher Server Custom Reports Server	443
SIS	Series25 WebServices	1521 (Oracle) 1433 (MSS)
Series25 LYNX Interface	LYNX WebServices	443
Series25 WebServices	Single Sign-On	636 (typically)

## Web Browsers

Series25 tools may be accessed using any of the following browsers:

- Mozilla Firefox
- Google Chrome
- Microsoft Edge
- Apple Safari
- Built-in browsers on iOS and Android

*Note: The system supports the latest version of any of the browsers listed above and up to two major versions back. Due to variations in Web standards, there may be minor display differences among browsers.*

## Single Sign-On (*optional*)

In addition to native authentication within the software itself, Series25 offers the option to implement single sign-on integrations. This includes automatic user provisioning in Series25 upon login.

CollegeNET maintains hundreds of SSO configurations in our SaaS environments and supports multiple authentication protocols:

- LDAP (including Active Directory)
- SAML 2.0 (including Shibboleth)

Our Series25 development and support teams have supported SSO for over a decade, and we are a member of the InCommon Federation.

Requirements for supported authentication:

- In order to implement LDAP authentication, CollegeNET requires an open connection from our servers to your LDAP server. We will also need a bind user (to connect for authentication) and a test user.
- For SAML 2.0-compliant authentication protocols, we first require the URL with your IdP's metadata or your entityID if your metadata is in InCommon. After providing this piece, you tell us what attributes to map, and we

set up the server.

For further information, see the [SSO](#) pages in the Exclusive Customer Resources section.

### Series25 LYNX Interface

Depending on the SIS used, a lightweight Java service, the LYNX-APP, must be installed at your institution. Our Technical Support representatives can help if you have a different SIS than those listed below.

#### LYNX for Banner Database Requirements

- Banner version 8+
- Both phase 1 and phase 2 of Banner's Database Extension Utility (DBEU) have been implemented
- Oracle Database 11g r2, 12c, 18c, or 19c

#### LYNX for Campus Solutions Database Requirements

- *Oracle*: Oracle PeopleSoft Campus Solutions 8.9+, Oracle Database 11g r2, 12c, 18c, or 19c
- *MS SQL*: MS SQL Server 2012 or later, TLS 1.2+ for MS SQL Server

#### LYNX for Colleague (MS SQL and Unidata) Database Requirements

- *MS SQL*: MS SQL Server 2012 or later, TLS 1.2+ for MS SQL Server
- *Oracle*: Oracle Database 11g r2, 12c, 18c, or 19c
- *Unidata*: Colleague Release 18 and Data transactions (2002), Colleague App Listener (DMI updates), Microsoft SQL database 2012+, Windows Server (*versions currently supported by Microsoft*), .NET Framework 4.5+

#### LYNX Universal Database Requirements

- *Oracle*: Oracle Database 11g r2, 12c, 18c, or 19c
- *MS SQL*: MS SQL Server 2012 or later, TLS 1.2+ for MS SQL Server

#### LYNX for Workday Database Requirements

- A functioning instance of Workday Student

#### LYNX for Ethos Database Requirements

- A functioning instance of Ethos

#### LYNX for Anthology Database Requirements

- A functioning instance of Anthology Student

#### Series25 LYNX LYNX-APP Server Requirements

*(not required for Workday, Ethos, or Anthology API integration)*

The Series25 LYNX Interface LYNX-APP Service is required for any locally hosted SIS. It is a lightweight Java application that transmits data to and from your Series25 environment hosted by CollegeneT.

- CPU: 1 GHz minimum
- RAM: 1 GB minimum
- Hard disk space: 10 GB

**Note:** For information on installing the LYNX-APP server-side service, see the [LYNX Interface - Installation Overview](#)

### **Supported OS Options**

- Windows Server *(versions currently supported by Microsoft)*
- Windows 10
- Linux

### **LYNX-APP Service Java Support**

- Java 8-17

**Java Note:** Please consult with your institution's IT department about where to source an appropriate Java version.



#### **If You're Considering a Virtual Environment**

The LYNX-APP server-side service can be installed in a virtualized environment. Please be aware, however, that Series25 Customer Support cannot troubleshoot configuration issues specific to virtual servers.

## **Running Reports**

Adobe Reader or another PDF reader must be installed when running 25Live Reports, which uses Series25 WebServices.

Some reports are also available to download and view in Excel/spreadsheet format and require a spreadsheet application, such as Microsoft Excel or OpenOffice Calc.

## **StandOut Classroom**

A webcam or mobile device camera that supports video recording is required to record videos within StandOut Classroom.