

Classview System Specifications

Version 8.0, Revision 072418

General

- ClassView products are provided using a popular Cloud-Based Client / Server Solution
- Multiple classroom devices/operating systems are supported: iOS, Chromebooks, and Browsers
- Two content delivery options are available:
 - o Cloud (AWS Hosted)
 - o Campus Content Server (Optional)

Typical Classroom

- 30 users or less per classroom (typical) or as allowable by school infrastructure
- 1 teacher per classroom, multiple co-teachers
- 90 concurrent users per school (nominal performance) or as allowable by school infrastructure

Recommended Network Bandwidth Per Classroom

- 1.2Mbps per user (Peak)
- 330Kbps per user (Nominal)

Supported Devices and Browsers

- Google Chromebooks
 - o Chrome OS 59.x or greater
 - o 1.40Ghz Processor
 - o 2GB RAM /16GB Storage
 - o Screen Size: 10.1”
 - o User Interface: trackpad or mouse are recommended
- iPad Minimum Requirements
 - o iOS 10.x or above
 - o iPad 4 / iPad Mini 2 or newer
 - o 16GB Storage
- Browsers:
 - o Windows: Internet Explorer 10 - 11 & Edge, Firefox, Chrome
 - o Mac: Safari, Firefox, Chrome

*Internet Explorer 10/11 and Safari browsers do not work with assignments that require microphone access.

Projector

- Projection Resolution: 1024 x 768
- Workstation Connected to Projector: any device that runs a browser

Cloud Resources

- Amazon (AWS) - See list below for all IP's that AWS uses
- <https://www.google.com/analytics/web>

Web Services (Whitelisting and filter configuration - allow for both HTTP & HTTPS)

- Ports **80** and **443**.
- Required Universal Resource Links (URLs)

Text Help	speechstream.net/* speechstreamservices.speechstream.net/* speechstreamservicesbackup.speechstream.net/* speechstreamcache.speechstream.net/*
EasyBridge: Where Are You From (WAYF)	https://wayf.rumba.pearsoncmg.com/*
Google Analytics	https://www.googleapis.com/*

- Cloud based server Top Level Domains, (TLD) hosted by Amazon AWS:

Content Server (Option A - Device to Cloud) (Option B - Content Server to Cloud) Note: Content Server is designed to support only native devices and has no effect on the web clients.	d3qfhrxwebueku.cloudfront.net/*
AWS Elastic Load Balancer (For all Web Services)	bts18-production-661401114.us-east-2.elb.amazonaws.com/*
Production URL (For all Web Services)	production.pearsonapi.com/*
AWS S3 (Content, app updates, ClassView docs, etc.)	https://s3.amazonaws.com/bts18-production/* https://s3-us-west-2.amazonaws.com/classview/*

** These specs are recommended and not required since app performance depends on many environmental factors such as bandwidth, density of users, clearing of cache, etc.*

For those districts that requiring IP based filtering, Amazon publishes the following guide with associated an json file to be used with your content filters.

<http://docs.aws.amazon.com/general/latest/gr/aws-ip-ranges.html>

We do not recommend implementing **IP address rating filters** since IP's are frequently re-distributed and **ratings** can generate **false positives**. Optionally, we suggest **filtering by host headers** especially for content as shown in the System Requirements. Unlike IP's, Host headers are owned by the trusted hosting provided under management by Amazon Web Services CloudFront.