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Classview System Specification

General:

- ClassView products are provided using a popular Cloud-Based Solution
- Multiple classroom devices/operating systems are supported: iOS, Chromebooks, and Browsers

Typical Classroom:

- 30 users or less per classroom (typical) or as allowable by school infrastructure
- 1 lead teacher per classroom with support for multiple co-teachers

Recommended Network Bandwidth: Per Classroom

- 801.11ac or 802.11n (5GHz spectrum recommended)
- 1.5Mbps per user (Peak)
- 750Kbps per user (Nominal)

Supported Devices and Browsers:

- Google Chromebooks
 - Chrome OS 67.x or later (Official Build - 64bit)
 - 1.40Ghz Processor
 - 2GB RAM /16GB Storage
 - Screen Size: 10.1”
 - Recommended resolution: 1366 x 768
 - User Interface: trackpad or mouse are recommended
- iPad Minimum Requirements
 - iOS 10.x or above
 - iPad 4 / iPad Mini 2 or newer
 - 16GB Storage
- Browsers:
 - Google Chrome™ version 67 or later (32/64-bit Windows®; 64-bit Mac OS® X)
 - Mozilla Firefox® 60 or later (32/64-bit Windows; 64-bit Mac OS X)
 - Safari® 9.x, 10.x, 11.x (64-bit)
 - Edge (32/64-bit)
 - Internet Explorer 10/11 and Safari browsers do not work with assignments that require microphone access.

Projector:

- Projection Resolution: 1024 x 768

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- Workstation Connected to Projector: any device that runs a supported 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, (URL's)

Text Help	speechstream.net/* speechstreamservices.speechstream.net/* speechstreamservicesbackup.speechstream.net/* speechstreamcache.speechstream.net/*
EasyBridge: Where Are You From (WAYF) EasyBridge: Link to ClassView Platform	https://wayf.rumba.pearsoncmg.com/ * https://sso.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/* (2018/2019) d3etodn1cqduev.cloudfront.net/* (2019/2020)
AWS Elastic Load Balancer (For all Web Services)	bts18-production-661401114.us-east-2.elb.amazonaws.com/* (2018/2019) bts19-production-1421833191.us-east-2.elb.amazonaws.com/* (2019/2020)
Production URL (For all Web Services)	production.pearsonapi.com/* (2018/2019) production.classviewapi.com/* (2019/2020)
AWS S3 (Content, app updates, ClassView docs, etc.)	https://s3.amazonaws.com/bts18-production/ * https://s3-us-west-2.amazonaws.com/classview/ * https://bts19-production.s3.us-east-2.amazonaws.com/ *

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For those districts that requiring IP based filtering, Amazon publishes the following guide with an associated 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.

* 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.