

An abstract graphic on the left side of the slide, consisting of a network of white lines and small circles on a blue gradient background, resembling a circuit board or a neural network structure.

INTERNET CAPACITY PREPARATION

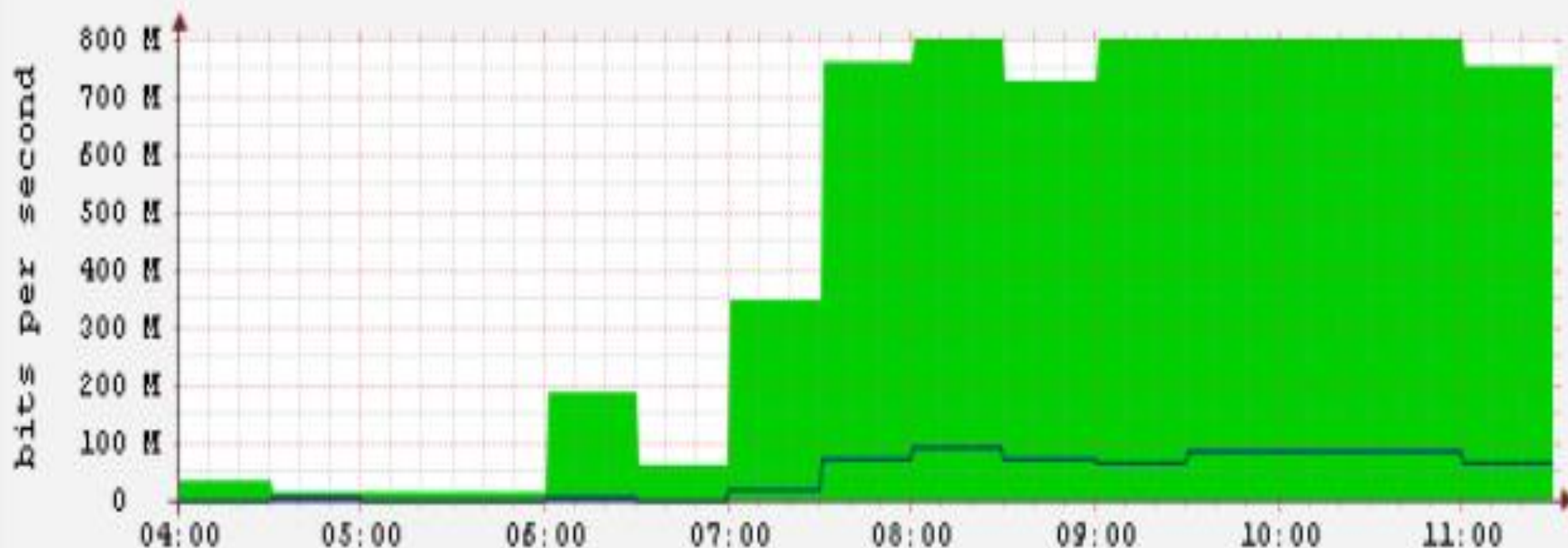
THE PROBLEM

- 1 600 devices will be added to our network with the addition of the high schools in the 1:1 program.
- Current bandwidth capacity is 800 mg with an anticipated upgrade to 1.5 g in August.
- The network is maxing out currently on high impact days (i.e.. Testing)
 - Mr. Vezina monitors bandwidth usage and disables streaming capabilities when the bandwidth is maxed out.

THE PROBLEM (CONT.)

- Wireless Access Points are designed for @30 devices
 - With almost every student attaching a second device (cell phone) to the network many of our access points have a double load.
 - When the high schools are included in 1:1 next year all of the access points will be at double capacity or beyond and there will be a great strain on an already depleted wireless network.
- Our filter has a limited capacity which will be pushed with the addition of the high schools.

BHS Core - Traffic - Te2/6

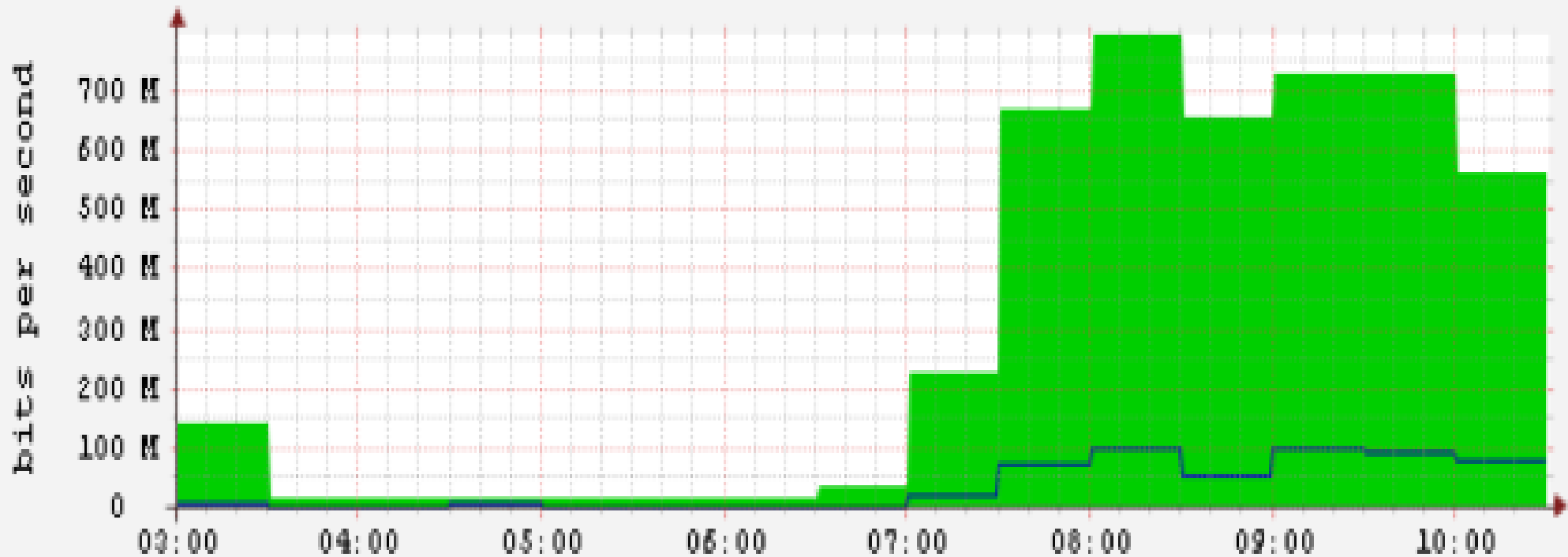


From 2017/03/17 08:00:00 To 2017/03/17 15:30:00

Inbound	Current: 656.52 M	Average: 469.92 M	Maximum: 797.43 M
Outbound	Current: 62.54 M	Average: 46.38 M	Maximum: 92.17 M

Copyright © 1994-2017 The Cisco Group

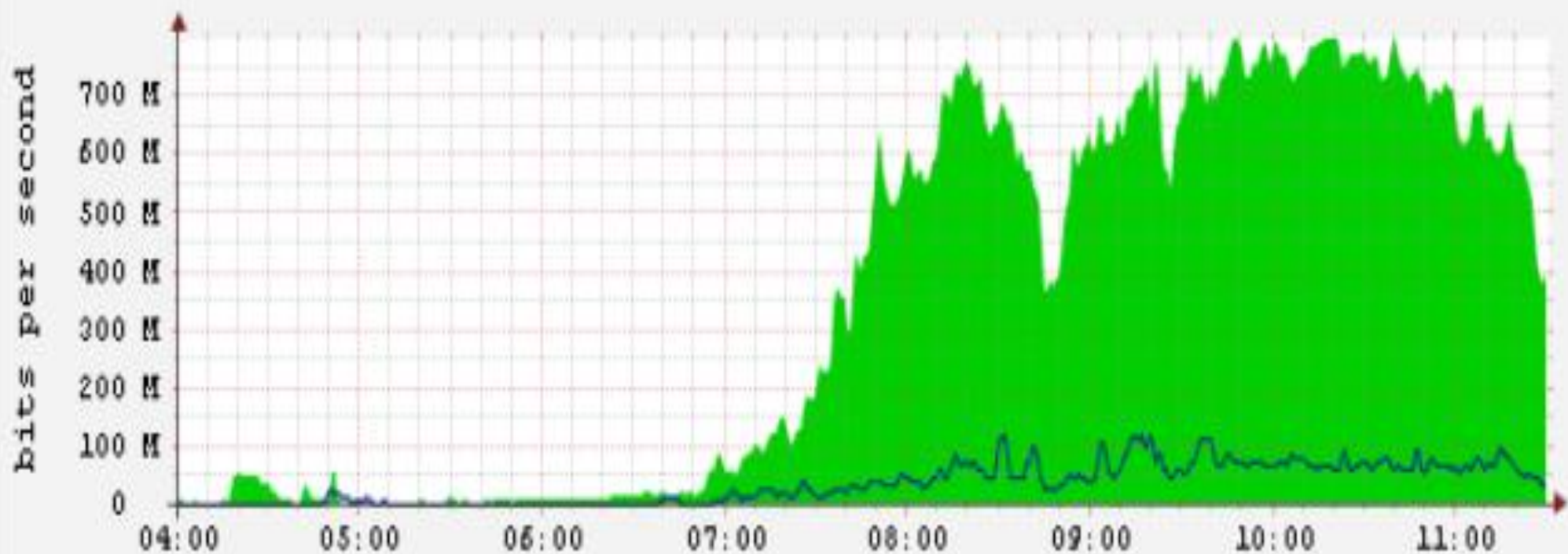
BHS Core - Traffic - Te2/6



From 2017/03/10 08:00:00 To 2017/03/10 15:30:00

Inbound	Current: 683.64 M	Average: 328.64 M	Maximum: 791.63 M
Outbound	Current: 61.76 M	Average: 36.80 M	Maximum: 101.36 M

BHS Core - Traffic - Te2/6



From 2017/05/12 08:00:00 To 2017/05/12 15:30:00

Inbound	Current: 438.39 M	Average: 351.56 M	Maximum: 794.38 M
Outbound	Current: 38.81 M	Average: 35.63 M	Maximum: 121.09 M

THE SOLUTION

- For the 2017-2018 school year we plan to prevent student personal devices from connecting to our wireless network.
 - In classrooms students will need to use their district issued device in order to connect to the network.
 - In common areas (such as cafeterias and lobbies) all devices will still be able to connect to the network.
 - Individual student devices used for learning in-lieu of the district issued device will be allowed to connect to the network.

PREDICTION

- The district's network will have enough wireless Internet to support digital learning.
- Some students may access their family data more.
- Some students will not be able to access Internet on their phones due to the lack of family data or the lack of signal within our buildings.
- Some students may be deterred from accessing social media etc. during learning time.