

Blue Coat Certified WAN Acceleration Administrator (BCWAA) v 4.1.1 Chapter Summaries (July 2011)

This document gives brief summaries of the modules in the BCWAA student workbook.

Chapter 1: WAN Optimization

IT managers work to achieve a complex goal: increasing efficiency, providing better control and security, and minimizing costs. Organizations can reach that goal by taking advantage of Application Delivery Networks. The chapter provides an overview of the key elements of the WAN optimization solution: bandwidth management, protocol optimization, object caching, byte caching, and compression.

Module 2: WAN Acceleration Deployments

This chapter discusses the physical methods of deploying a ProxySG in the network. Students learn the requirements for each kind of deployment and the features that can be enabled by specific deployments. This chapter also provides an overview and introduction to ADN elements and types.

Module 3: Initial Setup and Licensing

This chapter walks you through the steps you need to complete when setting up the ProxySG for the first time. Some of the concepts of initial configuration also apply to reconfiguring an existing ProxySG or one that has been restored to factory-default settings. This chapter also focuses on what a customer must do to license the ProxySG and what behavior they should expect from their Blue Coat products in regards to the license. An overview of the basic information that each customer should know about the ProxySG licensing system is provided. Additionally, you will learn what happens when the limitations of a license are exceeded and what happens when a license expires.

- Accompanied by Initial Setup lab.

Module 4: Blue Coat Sky

This chapter introduces Blue Coat Sky, a streamlined management interface that offers reports and configuration options specifically applicable for enterprises where the ProxySG is used primarily for WAN optimization. Topics include Sky capabilities, how to switch between Sky and the traditional Management Console interface, how to avoid conflicts with the Management Console, and how to update Sky.

Module 5: WCCP Setup

This chapter continues the discussion of specific deployments by introducing students to the WCCP solution. Basic concepts such as service groups and configuration requirements are covered, as well as [resources for WCCP support](#).

Module 6: Services

This chapter introduces the services framework of the ProxySG, which determines whether specific traffic is allowed or restricted through the ProxySG. It focuses on console services and proxy services available through the Management Console. The chapter also discusses service ports, service port actions, and proxy service attributes in detail.

- Accompanied by Configure a Custom Service lab.

Module 7: Monitoring Traffic

The ProxySG has many tools to help monitor the traffic on your network. One of the most important is the Sessions display, which allows you to see what sessions are flowing through the ProxySG. This chapter shows you how to use the Sessions display, as well as some of the other monitoring tools in the ProxySG.

- Accompanied by Traffic Monitoring lab.

Module 8: Configure ADN Roles

This chapter shows you how to configure a ProxySG to serve in various roles in your ADN. Any ProxySG can be configured to be an ADN manager, branch peer, or concentrator peer, based on its location in the network and connectivity to servers.

- Accompanied by Monitoring Transparent and Explicit ADN lab.

Module 9: Optimizing CIFS

This chapter explains how the ProxySG optimizes the CIFS protocol through object caching and pipelining and shows how the CIFS proxy can be used to prepopulate content on the ProxySG for optimized retrieval.

- Accompanied by Configure CIFS Optimization lab.

Module 10: MAPI over ADN

This chapter explains how MAPI works and how organizations can use the ProxySG to accelerate e-mail across the enterprise.

- Accompanied by Configure MAPI Optimization lab.

Module 11: Accelerating Web Traffic

This chapter explains how HTTP works and how the ProxySG accelerates traffic between enterprise clients and the Web.

- Accompanied by Configure Web Acceleration lab.

Module 12: Streaming Media Acceleration

As streaming media traffic becomes a larger portion of Web usage, accelerating and optimizing that traffic to prevent it from interfering with normal and critical network activities becomes more important. This chapter covers how the ProxySG intercepts and accelerates different kinds of streaming protocols.

- Accompanied by Configure Streaming Media Acceleration lab.

Module 13: Bandwidth Management

Bandwidth management allows you to give users access to resources while limiting the total amount of bandwidth that they use. It also allows you to set priorities for those resources. This chapter explains how

bandwidth management works and how to implement it to improve network performance.

- Accompanied by Managing Bandwidth Usage lab.

Module 14: ProxySG Troubleshooting

This chapter covers basic troubleshooting for common network problems, using the tools provided by the ProxySG, including health checks, packet captures, and easy access to Blue Coat's world-wide support network.

- Accompanied by Troubleshooting Exercises lab.