

Configuration Exercise Equipment Requirements and Backbone Configurations

NOTE

This document is an addendum to Appendix H, “Configuration Exercise Equipment Requirements and Backbone Configurations,” in the *Building Scalable Cisco Networks* book from Cisco Press. The materials in this document support the supplemental online chapter, “Configuring IS-IS Protocol,” which has been provided to you in accordance with the latest Building Scalable Cisco Internetworks (BSCI) objectives.

Backbone Router Configuration

Table H-6 has been modified from the version in the book to include the IS-IS configuration exercise from the supplemental online chapter, “Configuring IS-IS Protocol.” The new material has been shaded for your convenience.

Table H-6 *When Configurations Should Be Used on the Backbone Routers*

Configuration Exercise	Use This Configuration in This Device (Load the Configuration at the Beginning of the Configuration Exercise)	
	backbone_r1	backbone_r2
Discovering the Network (Chapter 1)	bbr1 discovery.txt	—
Configuring OSPF for a Single Area (Chapter 3)	bbr1 ospf single.txt	—
Configuring OSPF for a Single Area in an NBMA Environment (Chapter 3)	Continue to use bbr1 ospf single.txt	—
Configuring a Multiarea OSPF Network (Chapter 4)	Continue to use bbr1 ospf single.txt	—
Configuring a Multiarea IS-IS Network (Online IS-IS Supplement)	bbr1 isis.txt	—
Configuring EIGRP (Chapter 5)	bbr1 eigrp.txt	—
Configuring EIGRP in an NBMA Environment (Chapter 5)	Continue to use bbr1 eigrp.txt	—
Configuring BGP (Chapter 6)	bbr1 bgp.txt	—

continues

Table H-6 *When Configurations Should Be Used on the Backbone Routers (Continued)*

Configuration Exercise	Use This Configuration in This Device (Load the Configuration at the Beginning of the Configuration Exercise)	
	backbone_r1	backbone_r2
Configuring BGP Route Reflectors and Prefix-List Filtering (Chapter 7)	Continue to use bbr1 bgp.txt	—
Configuring Multihome BGP (Chapter 7)	Continue to use bbr1 bgp.txt	bbr2 bgp multihome.txt
Configuring Policy-Based Routing (Chapter 8)	Continue to use bbr1 bgp.txt	Continue to use bbr2 bgp multihome.txt
Configuring Route Redistribution Between OSPF and EIGRP (Chapter 8)	Continue to use bbr1 bgp.txt	Continue to use bbr2 bgp multihome.txt
Super Lab, Part I and Part II (Chapter 9)	bbr1 super.txt	Continue to use bbr2 bgp multihome.txt

Backbone_r1 Configurations

This section provides the text of the configuration files for the backbone_r1 router. The new IS-IS configuration bbr1 isis.txt has been added (see Configuration H-7), and the EIGRP configuration bbr1 eigrp.txt has been modified (see Configuration H-3).

Configuration H-7 *bbr1 isis.txt*

```

!
!backbone_r1 IS-IS multi-area configuration exercise configuration
!
! This file is designed to be copied and pasted into a router that already
! has the previous BSCN configuration files loaded, at the # prompt
!
conf t
!
no access-list 1
no route-map passext
no router ospf 200
!
!
router isis
 net 13.1111.2222.3333.00
 is-type level-2-only
!
!
clns routing
!
interface Loopback100

```

Configuration H-7 *bbr1 isis.txt (Continued)*

```
ip router isis
!
interface Loopback101
ip router isis
!
interface Serial1/0
ip router isis
!
interface Serial1/1
ip router isis
!
interface Serial1/2
ip router isis
!
interface Serial1/3
ip router isis
!
interface Serial1/4
ip router isis
!
interface Serial1/5
ip router isis
!
interface Serial1/6
ip router isis
!
interface Serial1/7
ip router isis
!
interface Serial2/0
ip router isis
!
interface Serial2/1
ip router isis
!
interface Serial2/2
ip router isis
!
interface Serial2/3
ip router isis
!
Exit
Exit
copy run start
```

Configuration H-3 is a modified version of the configuration that appears in the book. This Configuration H-3 replaces the Configuration H-3 in the book. Because the IS-IS configuration exercise is meant to be done before the EIGRP exercise, the router must be

configured differently before EIGRP is enabled if you previously worked on the IS-IS configuration exercise. The changes to the configuration are as follows:

- The IS-IS protocol, instead of the OSPF protocol, is removed from the router.
- Access list 1 and route map passex are added to the router.

Configuration H-3 *Configuration H-3 Modified bbr1 eigrp.txt*

```
!  
!backbone_r1 EIGRP configuration exercise configuration  
!  
! This file is designed to be copied and pasted into a router that already  
! has the previous BSCN configuration files loaded, at the # prompt  
!  
conf t  
!  
no router isis  
no clns routing  
!  
access-list 1 permit 172.16.10.0  
access-list 1 permit 172.16.11.0  
route-map passex permit 10  
  match ip address 1  
!  
router eigrp 200  
  redistribute connected metric 10000 100 255 1 1500 route-map passex  
  network 10.0.0.0  
!  
exit  
exit  
copy run start
```