



# 640-878<sup>Q&As</sup>

Building Cisco Service Provider Next-Generation Network

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### QUESTION 1

Refer to the configuration output below. OSPFv2 is already configured on a customer router and the customer is requesting that OSPFv3 be added. What configuration is needed in order to add OSPFv3 to the fastethernet0/0 interface?

Configuration: ipv6 router ospf 1 router-id 209.165.200.227 area 2 nssa

interface fastethernet0/0 ip address 2001:DB8:0:7::

- A. interface FastEthernet0/0 ipv4 ospf 1 area 2
- B. interface FastEthernet0/0 ipv6 ospf 1 area 2
- C. interface FastEthernet0/0 ipv6 1 area 2
- D. interface FastEthernet0/0 area 2 ospf 1 ipv6

Correct Answer: B

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### QUESTION 2

Which IOS Software solution is used for transporting RFC 1918 networks via IPSec + GRE VPNs over the internet?

- A. Dynamic Multipoint VPN
- B. Group Encrypted Transport VPN
- C. IPS
- D. URL Filtering

Correct Answer: A

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### QUESTION 3

Refer to the Cisco IOS XR configuration exhibit.

```
!
router isis 1
net 49.0001.0100.0200.1001.00
address-family ipv4 unicast
metric-style wide
address-family ipv6 unicast
metric-style wide
!
```

Which statement about the configuration is true?

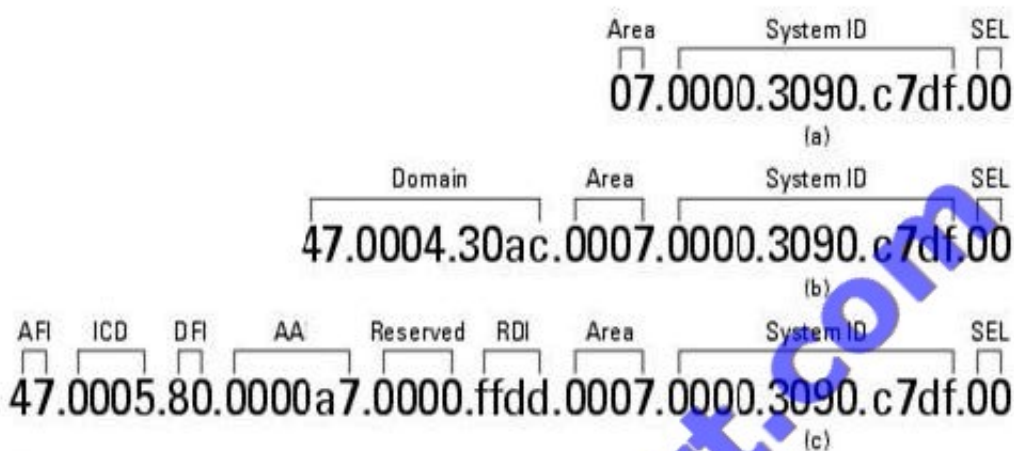


- A. This is a Level-2-only router.
- B. This is a Level-1-only router.
- C. The maximum IS-IS path metric is 63.
- D. This router belongs to area ID 0001.
- E. This configuration is missing the net configuration for the IPv6 unicast address family.

Correct Answer: D

[http://www.cisco.com/en/US/tech/tk365/technologies\\_white\\_paper09186a00800a3e6f.shtml#wp\\_39875](http://www.cisco.com/en/US/tech/tk365/technologies_white_paper09186a00800a3e6f.shtml#wp_39875)

### Three NSAP Formats



AFI: Authority and Format Identifier  
 ICD: International Code Designator  
 DFI: Domain Specific Part (DSP) Format Identifier  
 AA: Administrative Authority Identifier  
 RDI: Routing Domain Identifier (Autonomous System Number)  
 SEL: Network Service Access Point (NSAP) Selector

If an official prefix is not required, you can use AFI 49, which denotes private address space, like IP address space for private Internets as defined in RFC 1918.

The AFI has a binary value between 0 and 99; this value specifies the IDI format and the DSP syntax. The DSP is in binary format, and the IDP is in decimal. ISO recognizes seven top-level network addressing authorities; each authority has its own addressing format represented by the IDI format field.

Cisco technology supports all NSAP formats that are defined by ISO 8348/Ad2.

It is possible to configure multiple NETs on a router, but no router is ever in more than one area. Configuring multiple NETs causes the areas to merge into a common area, leaking the Level 1 databases into each other. The only reasons to have multiple NETs are for splitting, merging, or renumbering areas; this method should only be used in periods of transition. Cisco Systems limits the number of configurable NETs to three per router.



### QUESTION 4

Select and Place:



Drag and drop the Cisco IOS XR commands on the left over to the right, and place them in the correct operational order.

install commit	Step 1
install remove	Step 2
install deactivate	Step 3

Correct Answer:

Drag and drop the Cisco IOS XR commands on the left over to the right, and place them in the correct operational order.

	install deactivate
	install commit
	install remove

#### QUESTION 5

What is a requirement for performing Cisco IOS ISSU on the Cisco IOS XE-based ASR 1006 and ASR 1013 routers?

- A. must use consolidated package mode
- B. must use subpackage mode
- C. must have redundant RPs
- D. must have owner and nonowner SDRs

Correct Answer: C



**Table 1.** This Table Details the Effect of Each Package Upgrade

Software Sub-Packages	Cisco ASR 1002 / Cisco ASR 1004	Cisco ASR 1006
RBase	This contains the underlying Linux kernel so can not be upgraded "in service" <b>Requires reboot</b>	The standby RP in the Cisco ASR 1006 chassis may be upgraded and then switched over to active mode "in service" <b>Requires RP switchover; No transit packet loss</b>
RControl	Can be upgraded "in service" <b>No transit packet loss</b>	Can be upgraded "in service" on both active RP and standby RP <b>No transit packet loss</b>
RAccess	Can be upgraded "in service" <b>No transit packet loss</b>	Can be upgraded "in service" on both active RP and standby RP <b>No transit packet loss</b>
RPIOS	Can be upgraded "in service" if the system is running in dual IOS mode <b>Requires IOS processes switchover; No transit packet loss</b>	Can be upgraded on standby RP and switched over to active in service <b>Requires RP (IOS) switchover; No transit packet loss</b>



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