

Lateral Link Cutsheet

(See reverse for detailed instructions)

Participating Lateral Link Node Information			
1. Primary Contact Name		2. Telephone Number/Email	
3. Secondary Contact Name		4. Telephone Number/Email	
5. Unit		6. Implementation Date	
7. Router Series		8. IOS	
9. Interface Type (Serial or Ethernet)		10. Encapsulation (if Serial)	
Interface Configuration Settings			
11. IP Address		12. Subnet Mask	
13. Bandwidth		14. Negotiated Encapsulation	
Routing Protocol			
<input type="checkbox"/> BGP		<input type="checkbox"/> EIGRP	
15. Neighbor IP Address	16. Remote ASN	17. LLC Network	18. Mask
Local Network Details			
19. Local networks allowed to use the lateral link for transmitting and receiving IP data. Include network number and subnet mask	Network	Subnet Mask	
Lateral Link Connection Routing Protocol Settings			
20. Metrics for redistribution (EIGRP Only)			
<i>Bandwidth:</i> <i>Delay:</i> <i>Reliability:</i> <i>Load:</i> <i>MTU:</i>			
21. Domain Name		22. DNS Server name(s) and IP(s)	

Contact Information (blocks 1 through 4)	Include name and contact information for technical staff on the other end of the lateral link with decision-making authority regarding the remote network
Unit (block 5)	Service and Unit designation (for example, Army, 1stBn, 125 th Field Artillery)
Implementation Date (block 6)	Date the link is to be up and passing data
Router Series and IOS (blocks 7 and 8)	Series and Internetwork Operating System information for the “border” router for this link (for example, Router Series 3725 (block 7) Cisco version 12.3(1)) (block 8)
Interface Type (block 9)	Interface of network connected to router (for example, Serial or Ethernet)
Encapsulation (block 10)	Default Encapsulation your Service uses
IP Address/Subnet Mask (blocks 11 and 12)	Should be a 10-net (for example, 10.10.0.1; see JMNO TTP) but may be a live IP subnet
Bandwidth (block 13)	Provide amount of bandwidth available on the link
Negotiated Encapsulation (Block14)	The Encapsulation that will be used on the lateral link.
Routing Protocol	The routing protocol that will be used. Choices are BGP or EIGRP.
BGP: Neighbor IP Address/Remote ASN (blocks 15/16)	The IP address of the router port to which the local network will connect. The remote network’s BGP ASN for lateral links; see Table 5-3 of the JMNO TTP
EIGRP: LLC Network/Mask (blocks 17 and 18)	The network number and wildcard mask of the LLC connection
Networks to use lateral link (block 19)	A comprehensive list of IP subnets on the local side of the lateral link that will be authorized to traverse this LLC to reach other Service networks
Metrics for redistribution (block 20)	These parameters are necessary to correctly redistribute EIGRP-derived routes within OSPF. Not necessary if redistributing an internal EIGRP process into an external EIGRP process.
Domain name (block 21)	The fully qualified domain name(s) at the LLN level or below.
Server names and IPs (block 22)	DNS servers must be configured with conditional forwarders for users to send email traffic across the lateral link and to allow access to web and ftp servers across the lateral link by URLs and fully qualified domain names in web browsers.

Sample BGP Router Commands/Entries

```
router bgp 65020
no synchronization
bgp log-neighbor-changes
network 205.109.53.4 mask 255.255.255.252
network 205.109.53.8 mask 255.255.255.252
network 205.109.53.128 mask 255.255.255.240
network 205.109.53.168 mask 255.255.255.248
neighbor 10.10.0.1 remote-as 65010
no auto-summary
```

Sample EIGRP Entry for Networks using OSPF Internally (Redistributing OSPF information)

```
router eigrp 10
redistribute ospf 21 metric 2048 10 255 1 1500 match internal
network 10.10.0.0 0.0.0.3
network 144.106.0.0
distribute-list 12 out
distance eigrp 85 89
no auto-summary
```

Sample Access List for above Distribute-List

```
access-list 12 permit 10.10.0.0 0.0.0.3
access-list 12 permit 144.106.0.0 0.0.255.255
access-list 12 deny any
```

Sample EIGRP Entry for Networks using EIGRP Internally Router Commands/Entries

```
router eigrp 10
redistribute eigrp 1775
network 10.10.0.0 0.0.0.3
network 205.109.53.4 0.0.0.3
network 205.109.53.8 0.0.0.3
network 205.109.53.128 0.0.0.15
network 205.109.53.168 0.0.0.7
distribute-list 12 out
no auto-summary
no eigrp log-neighbor-changes
```

Sample Access List for above Distribute-List

```
access-list 12 permit 10.10.0.0 0.0.0.3
access-list 12 permit 205.109.53.4 0.0.0.3
access-list 12 permit 205.109.53.8 0.0.0.3
access-list 12 permit 205.109.53.128 0.0.0.15
access-list 12 permit network 205.109.53.168 0.0.0.7
access-list 12 deny any
```