

Mobile User Cutsheet

(See reverse for detailed instructions)

<input type="checkbox"/> Support for Local Mobile Users (“Purple Ports”)				
1. IP Address Assignment for Mobile User IPs <input type="checkbox"/> DHCP <input type="checkbox"/> Static Assignment	2. Network number <div style="border: 1px solid black; height: 40px; width: 100%;"></div>	3. Subnet mask <div style="border: 1px solid black; height: 40px; width: 100%;"></div>		
4. Default gateway				
5. Mobile User VLAN:				
6. Range of IP Addresses to be used:				
7. Switch ports to be used:				
8. Router interface on which to configure subinterface:				
<input type="checkbox"/> Support for Remote Mobile Users (“Service Ports”)				
9. Range of IP addresses to be used:				
10. Point-to-Point Tunneling Protocol to use (Circle one): <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;"> <div style="border: 1px solid black; border-radius: 50%; padding: 10px; text-align: center;">PPTP</div> <div>any</div> <div>I2f</div> <div>I2tp</div> </div>				
11. Router interface to support virtual access:				
12. Mobile User username and password:				
Switch and Router Configuration Commands				
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top; padding: 5px;"> <p style="text-align: center;"><u>To Support Locally attached Mobile Users</u></p> <p><i>For each interface on the switch used by mobile users:</i> interface interface-name switchport mode access switchport access vlan mobile user VLAN from Block 5</p> <p><i>For the router interface to be configured with subinterface:</i> interface interface-name/0.10 encapsulation dot1Q 10 ip address gateway IP and mask from blocks 4 & 3</p> <p><i>To configure DHCP on your router</i> ip dhcp pool PURPLE_PORTS network network and mask from blocks 2 & 3 default-router gateway address from block 4</p> <p><i>If you wish to exclude certain IPs from the DHCP pool:</i> ip dhcp excluded-address first_excluded_ip last_excluded_ip</p> </td> <td style="width: 50%; vertical-align: top; padding: 5px;"> <p style="text-align: center;"><u>To Support Your Remote Mobile Users</u></p> <p><i>Enabling Virtual Private Dial-up Networking</i> vpdn enable vpdn-group 1 accept-dialin protocol ptp virtual-template 1</p> <p><i>To create a pool of IP addresses for your mobile users:</i> ip local pool YOUR-SERVICE first and last IP address from block 9</p> <p><i>To configure the virtual access interface:</i> interface Virtual-Template1 ip unnumbered virtual-access interface, block 11 peer default ip address pool YOUR-SERVICE no keepalive ppp encrypt mppe auto ppp authentication pap chap ms-chap</p> <p><i>Configure username and password for mobile client:</i> username YOUR-SERVICE password jmno (Block 12)</p> </td> </tr> </table>			<p style="text-align: center;"><u>To Support Locally attached Mobile Users</u></p> <p><i>For each interface on the switch used by mobile users:</i> interface interface-name switchport mode access switchport access vlan mobile user VLAN from Block 5</p> <p><i>For the router interface to be configured with subinterface:</i> interface interface-name/0.10 encapsulation dot1Q 10 ip address gateway IP and mask from blocks 4 & 3</p> <p><i>To configure DHCP on your router</i> ip dhcp pool PURPLE_PORTS network network and mask from blocks 2 & 3 default-router gateway address from block 4</p> <p><i>If you wish to exclude certain IPs from the DHCP pool:</i> ip dhcp excluded-address first_excluded_ip last_excluded_ip</p>	<p style="text-align: center;"><u>To Support Your Remote Mobile Users</u></p> <p><i>Enabling Virtual Private Dial-up Networking</i> vpdn enable vpdn-group 1 accept-dialin protocol ptp virtual-template 1</p> <p><i>To create a pool of IP addresses for your mobile users:</i> ip local pool YOUR-SERVICE first and last IP address from block 9</p> <p><i>To configure the virtual access interface:</i> interface Virtual-Template1 ip unnumbered virtual-access interface, block 11 peer default ip address pool YOUR-SERVICE no keepalive ppp encrypt mppe auto ppp authentication pap chap ms-chap</p> <p><i>Configure username and password for mobile client:</i> username YOUR-SERVICE password jmno (Block 12)</p>
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Support for Local Mobile Users: Check this block if your site will be supporting mobile users from other Services.

DHCP vs. Static (Block 1)	Check whether you will provide IP addresses to local mobile users via DHCP, or manually assign IPs.
Network number/Subnet mask (Blocks 2 & 3)	IP network you will set aside for local mobile users. If using DHCP, you can use the “ip dhcp exclude-address” command to specify which IPs that DHCP will NOT assign.
Default gateway (Block 4)	Router port for the IP network to be used for local mobile users
Mobile User VLAN (Block 5)	VLAN set aside to support local mobile users.
IP Address Range (Block 6)	First and last IP addresses available for assignment to local mobile users
Switch Ports (Block 7)	Specific ports on your LLN switch set aside to support local mobile users
Router interface (Block 8)	Any active router interface can be assigned a subinterface

Support for Remote Mobile Users: Check if your site will support mobile users from your Service, connecting over a JMNO lateral link

IP Address Range (Block 9)	First and last IP addresses available for assignment to local mobile users
Tunneling Protocol (Block 10)	JMNO has tested PPTP successfully in the lab and during exercises. Other options for tunneling protocols include <i>any</i> , <i>l2f</i> , and <i>l2tp</i> .
Router Interface (Block 11)	Any active interface on the LLC router may be configured as the virtual-access interface
Mobile User username and password (Block 12)	For <i>YOUR-SERVICE</i> , substitute army, marinecorps, airforce, or navy as appropriate.