SMDS Commands

This chapter describes the function and displays the syntax of each SMDS command. For more information about defaults and usage guidelines, see the corresponding chapter of the *Router Products Command Reference* publication.

[**no**] **arp** *ip-address smds-address* **smds**

Use the **arp smds** interface configuration command to enable ARP entries for static routing over the SMDS network. Use the **no** form of this command to disable this capability.

ip-address	IP address
smds-address	SMDS address
smds	Enables ARP for SMDS

encapsulation smds

Use the **encapsulation smds** interface configuration command to enable SMDS service on the desired interface.

interface serial *interface.subinterface* [**multipoint** | **point-to-point**]
interface serial *slot/port.subinterface* [**multipoint** | **point-to-point**]
   (For Cisco 7000 series routers)

To define a logical subinterface on a serial interface to support multiple logical IP subnetworks (MultiLIS) over SMDS, use the **interface serial** interface configuration command.

interface	Interface number.
subinterface	Number for this subinterface; values in the range 0 through 255.
slot	On the Cisco 7000 series, specifies the backplane slot number; can be 0, 1, 2, 3, or 4. The slots are numbered from left to right.

port	On the Cisco 7000 series, specifies the port number of the interface; can be 0, 1, 2, 3, 4, or 5.
multipoint	(Optional) Treats the subinterface as a multipoint link.
point-to-point	(Optional) Treats the subinterface as a point-to-point link.

show arp

Use the **show arp** privileged EXEC command to display the entries in the ARP table for the router.

show smds addresses

Use the **show smds addresses** privileged EXEC command to display the individual addresses and the interface that they are associated with.

show smds map

Use the **show smds map** privileged EXEC command to display all SMDS addresses that are mapped to higher-level protocol addresses.

show smds traffic

Use the **show smds traffic** privileged EXEC command to display statistics on bad SMDS packets the router has received.

[**no**] **smds address** *smds-address*

Use the **smds address** interface configuration command to specify the SMDS individual address for a particular interface. Use the **no** form of this command to remove the address from the configuration file.

| *smds-address* | Individual address provided by the SMDS service provider. This address is protocol independent. |

smds dxi

Use the **smds dxi** interface configuration command to enable the DXI 3.2 support. Use the **no** form of this command to disable the DXI 3.2 support.

[no] smds enable-arp

Use the **smds enable-arp** interface configuration command to enable the Address Resolution Protocol (ARP). The multicast address for ARP must be set before this command is issued. Once ARP has been enabled, use the **no** form of this command to disable the interface.

[no] smds multicast *protocol smds-address*

To assign a multicast SMDS E.164 address to a higher-level protocol, use the **smds multicas**t interface configuration command. To remove an assigned multicast address, use the **no smds multicast** command with the appropriate address.

protocol	Protocol type. See the supported protocols table for this command in the *Router Products Command Reference* publication.
smds-address	SMDS address. Because SMDS does not incorporate broadcast addressing, a group address for a particular protocol must be defined to serve the broadcast function.

[no] smds multicast arp *smds-address* [*ip-address mask*]

Use the **smds multicast arp** interface configuration command to map the SMDS address to a multicast address. Use the **no** form of this command to disable this feature.

smds-address	SMDS address in E.164 format
ip-address	(Optional) IP address
mask	(Optional) Subnet mask for the IP address

[**no**] **smds multicast bridge** *smds-address*

Use the **smds multicast bridge** interface configuration command to enable Spanning Tree updates. Use the **no** form of this command to disable this function.

> *smds-address*   SMDS multicast address in E.164 format

[**no**] **smds multicast ip** *smds-address* [*ip-address mask*]

Use the **smds multicast ip** interface configuration command to map an SMDS group address to a secondary IP address. Use the **no** form of this command to remove the address map.

> | *smds-address* | SMDS address in E.164 format |
> | --- | --- |
> | *ip-address* | (Optional) IP address |
> | *mask* | (Optional) Subnet mask for the IP address |

[**no**] **smds static-map** *protocol-type protocol-address smds-address*
    [**broadcast**]

Use the **smds static-map** interface configuration command to configure a static map between an individual SMDS address and a higher-level protocol address. Use the **no** form of this command with the appropriate arguments to remove the map.

> | *protocol-type* | Protocol type. It can be one of the following values: **appletalk**, **clns**, **decnet**, **ip**, **ipx**, **vines**, or **xns**. |
> | --- | --- |
> | *protocol-address* | Address of the higher-level protocol. |
> | *smds-address* | SMDS address, to complete the mapping. |
> | **broadcast** | (Optional) Marks the specified protocol address as a candidate for broadcast packets. All broadcast requests will be sent to the unicast SMDS address. |