SMDS Commands

This section 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** 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.

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 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 multicast** *protocol-type smds-address*

Use the **smds multicast** interface configuration command to map an SMDS group address to a broadcast or multicast address used by higher-level protocols. Use the **no** form of this command with the appropriate address to remove a multicast address.

protocol-type	Protocol type. See the supported protocols table in the *Router Products Command Reference* publication for a list of supported protocols and their keywords.
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 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.