

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 this variation of the **arp** global 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 of the remote router.

smds-address 12-digit SMDS address in the dotted notation nnnn.nnnn.nnnn (48 bits long).

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 they are associated with.

show smds map

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

show smds traffic

To display statistics about bad SMDS packets the router has received, use the **show smds traffic** privileged EXEC command.

[no] smds address *smds-address*

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

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

smds dxi

To enable the DXI 3.2 support, use the **smds dxi** interface configuration command. To disable the DXI 3.2 support, use the **no** form of this command.

[no] smds enable-arp

To enable dynamic Address Resolution Protocol (ARP), use the **smds enable-arp** interface configuration command. 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 multicast** interface configuration command. To remove an assigned multicast address, use the **no smds multicast** command with the appropriate address.

protocol Protocol type. See the “SMDS Multicast 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 multicast arp *smds-address* [*ip-address mask*]

To map the SMDS address to a multicast address, use the **smds multicast arp** interface configuration command. 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*

To enable spanning tree updates, use the **smds multicast bridge** interface configuration command. 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*]

To map an SMDS group address to a secondary IP address, use the **smds multicast ip** interface configuration command. 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 protocol-address smds-address*

[broadcast]

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

protocol Protocol. 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.