STUN Commands

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

encapsulation stun

Use the **encapsulation stun** interface configuration command to enable STUN encapsulation on a specified serial interface.

locaddr-priority-list *list-number address-number queue-keyword* **no locaddr-priority-list**

Use the **locaddr-priority-list** interface configuration command to establish queuing priorities based upon the address of the logical unit (LU). Use the **no** form of this command to cancel all previous assignments.

list-number Arbitrary integer between 1 and 10 that

identifies the LU address priority list

address-number Value of the LOCADDR= parameter on the

LU macro, which is a 1-byte address of the LU

in hexadecimal

queue-keyword Priority queue type: high, medium, normal,

or low.

[no] priority-group list-number

Use the **priority-group** interface configuration command to assign a priority group to an interface. Use the **no** form of this command to remove assignments.

list-number Priority list number assigned to the interface

[no] priority-list list-number protocol ip queue-keyword tcp tcp-port-number

Use the **priority-list** global configuration command to establish STUN queuing priorities based on the TCP port. Use the **no** form of this command to revert to normal priorities.

list-number Arbitrary integer between 1 and 10 that

identifies the priority list selected by the user.

queue-keyword Priority queue type: high, medium, normal,

or low.

tcp-port-number STUN port and priority settings are as follows:

high (1994), medium (1990), normal (1991),

and low (1992).

[no] priority-list list-number stun queue-keyword address group-number address-number

Use the **priority-list stun address** global configuration command to establish STUN queuing priorities based on the address of the serial link. Use the **no** form of this command to revert to normal priorities.

list-number Arbitrary integer between 1 and 10 that

identifies the priority list selected by the user.

queue-keyword Priority queue type: high, medium, normal,

or low.

group-number Group number that is used in the **stun group**

command.

address-number Address of the serial link. For an SDLC link,

the format is a 1-byte hex value (for example, C1). For a non-SDLC link, the address format

can be specified by the stun schema

command.

sdlc address FF ack-mode

Use the **sdlc address FF ack-mode** interface configuration command to configure the IBM reserved address FF as a valid local (not broadcast) address.

[no] sdlc virtual-multidrop

Use the **sdlc virtual-multidrop** interface configuration command to allow SDLC broadcast address FF to be replicated for each of the STUN peers, so each of the end stations receive the broadcast frame. Use the **no** form of this command to disable the SDLC Broadcast feature.

show stun

Use the **show stun** privileged EXEC command to display the current status of STUN connections.

show stun sdlc

Use the **show stun sdlc** EXEC command to display the status of the STUN interfaces using SDLC encapsulation and whether proxy polling is enabled for that interface.

[[no] stun group group-number

Use the **stun group** interface configuration command to place each STUN-enabled interface on a router in a previously defined STUN group. Use the **no** form of this command to remove an interface from a group.

group-number Integer in the range 1 through 255

stun keepalive-count count no stun keepalive-count

Use the **stun keepalive-count** global configuration command to define the number of times to attempt a peer connection before declaring the peer connection to be down.

count Number of connection attempts. The range is

between 2 and 10 retries.

[no] stun peer-name ip-address

Use the **stun peer-name** global configuration command to enable STUN on IP addresses. Use the **no** form of this command to disable STUN on an IP address.

ip-address IP address by which this STUN peer is known

to other STUN peers

stun protocol-group group-number {basic | sdlc | schema} [sdlc-tg] no stun protocol-group

Use the **stun protocol-group** global configuration command to create a protocol group. Use the **no** form of this command to remove an interface from the group.

group-number Integer in the range 1 through 255.

basic Indicates a non-SDLC protocol.

sdlc Indicates an SDLC group.

schema Indicates a custom protocol.

sdlc-tg (Optional) Used in conjunction with the sdlc

keyword. Identifies the group as part of an

SNA Transmission Group.

stun remote-peer-keepalive seconds no stun remote-peer-keepalive

Use the **stun remote-peer-keepalive** global configuration command to enable detection of the loss of a peer.

seconds Keepalive interval, in seconds. The range is 1

to 300 seconds. The default is 30 seconds.

stun route address *address-number* **interface serial** *interface-number* [direct]

no stun route address *address-number* **interface serial** *interface-number*

Use the **stun route address interface serial** interface configuration command to forward all HDLC traffic of a serial interface. Use the **no** form of this command to disable this method of HDLC encapsulation.

address-number Address of the serial interface.

interface-number Number assigned to the serial interface.

direct (Optional) Forwards all HDLC traffic on a

direct STUN link.

[no] stun route address address-number tcp ip-address [local-ack] [priority]

Use the **stun route address tcp** interface configuration command to specify TCP encapsulation and optionally establish SDLC local acknowledgment (SDLC Transport) for STUN. Use the **no** form of this command to disable this method of TCP encapsulation.

address-number Number that conforms to TCP addressing

conventions.

ip-address IP address by which this STUN peer is known

to other STUN peers that are using the TCP as

the STUN encapsulation.

local-ack (Optional) Enables local acknowledgment for

STUN.

priority (Optional) Establishes the four levels used in

priority queuing: low, medium, normal, and

high.

stun route all interface serial interface-number [direct]

Use the **stun route all interface serial** interface configuration command to encapsulate and forward all STUN traffic using HDLC encapsulation on a serial interface.

interface-number Number assigned to the serial interface.

direct (Optional) Indicates that the specified interface

is also a direct STUN link, rather than a serial

connection to another peer.

stun route all tcp ip-address

Use the **stun route all tcp** interface configuration command to use TCP encapsulation and forward all STUN traffic on an interface regardless of what address is contained in the serial frame.

ip-address IP address by which this remote STUN peer is

known to other STUN peers. Use the address that identifies the remote STUN peer that is

connected to the far serial link.

[no] stun schema name offset constant-offset length address-length format format-keyword

Use the **stun schema offset length format** global configuration command to define a protocol other than SDLC for use with STUN. Use the **no** form of this command to disable the new protocol.

name Name that defines your protocol. It can be up

to 20 characters long.

constant-offset Constant offset (in bytes) for the address to be

found in the frame.

address-length Length (in bytes) in one of the following

address formats: decimal (4 bytes) hexadecimal (8 bytes)

octal (4 bytes)

format-keyword Format to be used to specify and display

addresses for routes on interfaces that use this

STUN protocol. The allowable format

keywords are:

decimal (0 through 9) **hexadecimal** (0 through F) **octal** (0 through 7)

stun sdlc-role primary

Use the **stun sdlc-role primary** interface configuration command to assign the router the role of SDLC primary node. Primary nodes poll secondary nodes in a predetermined order.

stun sdlc-role secondary

Use the **stun sdlc-role secondary** interface configuration command to assign the router the role of SDLC secondary node. Secondary nodes respond to polls sent by the SDLC primary by transmitting any outgoing data they might have.