

SDLLC Commands

[no] sdllc partner *mac-address sdlc-address*

Use the **sdllc partner** interface configuration command to enable device-initiated connections for SDLLC. This command must be specified for the serial interface that links to the serial line device. Use the **no** form of this command to cancel the original instruction.

mac-address 48-bit MAC address of the Token Ring host.

sdlc-address SDLC address of the serial device that will communicate with the Token Ring host.

[no] sdllc ring-largest-frame *value*

Use the **sdllc ring-largest-frame** interface configuration command to indicate the largest I-frame size that can be sent to or received from the LLC2 primary station. Use the **no** form of this command to return to the default.

value Frame size in bytes. The default is 516 bytes.

[no] sdllc sap *sdlc-address ssap dsap*

Use the **sdllc sap** interface configuration command to associate a service access point (SAP) value other than the default SAP value with a serial interface configured for SDLLC. Use the **no** form of this command to return this SAP value to 4, the default value.

<i>sdlc-address</i>	Virtual MAC address associated with the remote SDLC device.
<i>ssap</i>	Source SAP value. It must be in the range 1 through 254.
<i>dsap</i>	Destination SAP value. It must be in the range 1 through 254.

[no] sdllc sdlc-largest-frame *address value*

Use the **sdllc sdlc-largest-frame** interface configuration command to indicate the largest information frame (I-frame) size that can be sent or received by the designated SDLC station. Use the **no** form of this command to return to 265, the default value.

<i>address</i>	Address of the SDLC station that will communicate with the Token Ring host
<i>value</i>	Largest frame size that can be sent or received by this SDLC station

[no] sdllc traddr *xxxx.xxxx.xx00 lr bn tr*

Use the **sdllc traddr** interface configuration command to enable the use of SDLLC Media Translation on a serial interface. The address specified is a MAC address to be assigned to the serial station. Use the **no** form of this command to disable SDLLC Media Translation on the interface.

<i>xxxx.xxxx.xx00</i>	MAC address to be assigned to the serial interface
<i>lr</i>	SDLLC virtual ring number
<i>bn</i>	SDLLC bridge number
<i>tr</i>	SDLLC target ring number

[no] sdllc xid *address xxxxxxxx*

Use the **sdllc xid** interface configuration command to specify an exchanged ID (XID) value appropriate for the designated SDLC station associated with this serial interface. Use the **no** form of this command to disable XID processing for this address.

<i>address</i>	Address of the SDLC station associated with this interface.
<i>xxxxxxx</i>	XID the router will use to respond to XID requests the router receives on the Token Ring (LLC2) side of the connection. This value must be 4 bytes (8 digits) long and is specified with hexadecimal digits.

show interfaces

Use the **show interfaces** privileged EXEC command to display the SDLC information for a given SDLC interface.

show sdllc local-ack

Use the **show sdllc local-ack** privileged EXEC command to display the current state of any current Local Acknowledgment connections and any configured Passthrough Rings.

[no] source-bridge fst-peername *local-interface-address*

Use the **source-bridge fst-peername** global configuration command to set up a Fast Sequenced Transport (FST) peer name. Use the **no** form of this command to disable the IP address assignment.

local-interface-address IP address to assign to the local router

SDLLC Commands

source-bridge remote-peer *ring-group* **fst** *ip-address* [**if** *size*]
no source-bridge remote-peer *ring-group* **fst** *ip-address*

Use the **source-bridge remote-peer fst** global configuration command to specify a Fast Sequenced Transport (FST) encapsulation connection. Use the **no** form of the command to disable the previous assignments.

- ring-group* Ring group number. This ring group number must match the number you have specified with the **source-bridge ring-group** command. The valid range is 1 through 4095.
- ip-address* IP address of the remote peer with which the router will communicate.
- If** *size* (Optional) Maximum size frame to be sent to this remote peer. The router negotiates all transit routes down to this size or lower. Use this argument to prevent timeouts in end hosts by reducing the amount of data they have to transmit in a fixed interval. The legal values for this argument are 516, 1500, 2052, 4472, 8144, 11407, and 17800 bytes.

source-bridge remote-peer *ring-group* **interface** *interface-name*
[*mac-address*] [**if** *size*]

no source-bridge remote-peer *ring-group* **interface** *interface-name*

Use the **source-bridge remote-peer interface** global configuration command when specifying a point-to-point direct encapsulation connection. Use the **no** form of this command to disable previous interface assignments.

<i>ring-group</i>	Ring group number. This ring group number must match the number you have specified with the source-bridge ring-group command. The valid range is 1 through 4095.
<i>interface-name</i>	Name of the router's serial interface over which to send source-route bridged traffic.
<i>mac-address</i>	(Optional) MAC address for the interface you specify using the <i>interface-name</i> argument. This argument is required for nonserial interfaces. You can obtain the value of this MAC address by using the show interface command, and then scanning the display for the interface specified by <i>interface-name</i> .
if <i>size</i>	(Optional) Maximum size frame to be sent to this remote peer. The router negotiates all transit routes down to this size or lower. This argument is useful in preventing timeouts in end hosts by reducing the amount of data they have to transmit in a fixed interval. The legal values for this argument are 516, 1500, 2052, 4472, 8144, 11407, and 17800 bytes.

source-bridge remote-peer *ring-group tcp ip-address* [**If size**]
[**local-ack**] [**priority**]
no source-bridge remote-peer *ring-group tcp ip-address*

Use the **source-bridge remote-peer tcp** global configuration command to identify the IP address of a peer in the ring group with which to exchange source-bridge traffic using TCP. Use the **no** form of this command to remove a remote peer for the specified ring group.

- ring-group* Ring group number. This ring group number must match the number you have specified with the **source-bridge ring-group** command. The valid range is 1 through 4095.
- ip-address* IP address of the remote peer with which the router will communicate.
- If size** (Optional) Maximum size frame to be sent to this remote peer. The router negotiates all transit routes down to this size or lower. Use this argument to prevent timeouts in end hosts by reducing the amount of data they have to transmit in a fixed interval. The valid values for this argument are 516, 1500, 2052, 4472, 8144, 11407, and 17800 bytes.
- local-ack** (Optional) LLC2 sessions destined for a specific remote peer are to be locally terminated and acknowledged. Local Acknowledgment should be used for LLC2 sessions going to this remote peer.
- priority** (Optional) Enables prioritization over a TCP network. You must specify the keyword **local-ack** earlier in the same **source-bridge remote-peer** command. The keyword **priority** is a prerequisite for features such as SNA class of service and SNA LU address prioritization over a TCP network.

[no] source-bridge ring-group *ring-group*

Use the **source-bridge ring-group** global configuration command to define or remove a ring group from the router configuration. Use the **no** form of this command to cancel previous assignments.

ring-group Ring group number. The valid range is 1 through 4095.

[no] source-bridge sdllc-local-ack

Use the **source-bridge sdllc-local-ack** global configuration command to activate Local Acknowledgment for SDLLC sessions on a particular interface. Use the **no** form of this command to deactivate Local Acknowledgment for SDLLC sessions.