DSPU Configuration Commands

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

[**no**] **dspu activation-window**

Use the **dspu activation-window** global configuration command to define the number of activation request units (RUs) and response messages (such as ACTLUs or DDDLU NMVTs) that can be sent without waiting for responses from the remote PU. Use the **no** form of this command to return to the default window size.

window-size	Number of outstanding unacknowledged activation RUs.

[**no**] **dspu default-pu** [**window** *window-size*] [**maxiframe** *max-iframe*]

Use the **dspu default-pu** global configuration command to enable the default PU feature to be used when a downstream PU attempts to connect, but does not match any of the explicit PU definitions. Use the **no** form of this command to disable the default PU feature.

window *window-size*	(Optional) Defines the send and receive window sizes used across the link. The range is 1 to 127. The default is 7.
maxiframe *max-iframe*	(Optional) Defines the maximum size (in bytes) of an I-frame that can be transmitted or received across the link. The range is 64 bytes to 18,432 bytes. The default is 1472.

[**no**] **dspu enable-host** [**lsap** *local-sap*]

Use the **dspu enable-host** interface configuration command to enable a SAP for use by DSPU host connections. Use the **no** form of this command to disable the SAP.

lsap	(Optional) Specifies that the local SAP will be activated as an upstream SAP for both receiving incoming connection attempts and for starting outgoing connection attempts.
local-sap	(Optional) The local SAP address. The default is 12.

[**no**] **dspu enable-pu** [**lsap** *local-sap*]

Use the **dspu enable-pu** interface configuration command to enable a SAP for use by DSPU downstream connections. Use the **no** form of this command to disable the SAP.

lsap	(Optional) Specifies that the local SAP will be activated as a downstream SAP for both receiving incoming connection attempts and for starting outgoing connection attempts.
local-sap	(Optional) The local SAP address. The default is 8.

[**no**] **dspu host** *host-name* **xid-snd** *xid* **rmac** *remote-mac* [**rsap** *remote-sap*] [**lsap** *local-sap*] [**window** *window-size*] [**maxiframe** *max-iframe*] [**retries** *retry-count*] [**retry-timeout** *retry-timeout*] [**focalpoint**]

Use the **dspu host** global configuration command to define a DSPU host. Use the **no** form of this command to delete the DSPU host definition.

host-name	The specified DSPU host.

xid-snd *xid*	The XID that will be sent to the host during connection establishment. The XID value is 8 hexadecimal digits that include both Block and ID numbers. For example, if the XID value is 05D00001, the Block number is 05D and the ID number is 00001.
rmac *rmac*	The MAC address of the remote host PU.
rsap *remote-sap*	(Optional) Specifies the SAP address of the remote host PU. The default is 4.
lsap *local-sap*	(Optional) Specifies the local SAP address used by the DSPU to establish connection with the remote host.
window *window-size*	(Optional) Specifies the send and receive window sizes used for the host link. The range is 1 to 127.
maxiframe *max-iframe*	(Optional) Specifies the send and receive maximum I-frame sizes used for the host link. The range is 64 to 18432. The default is 1472.
retries *retry-count*	(Optional) Specifies the number of times the DSPU attempts to retry establishing connection with remote host PU. The range is 0 to 255 (0 = no retry attempts, 255 = infinite retry attempts). The default is 255.
retry-timeout *retry-timeout*	(Optional) Specifies the delay (in seconds) between DSPU attempts to retry establishing connection with remote host PU. The range is 1 to 600 seconds. The default is 30.
focalpoint	(Optional) Specifies that the host link will be used for the focal point support.

[**no**] **dspu lu** *lu-start* [*lu-end*] [**pool** *pool-name*] [**host** *host-name host-lu-start*] [**pu** *pu-name*]

Use the **dspu lu** global configuration command to define a range of LUs on a downstream PU. Use the **no** form of this command to remove the definition.

lu-start	Specifies the starting LU address in the range of LUs to be assigned from a pool or dedicated to a host.
lu-end	(Optional) Specifies the ending LU address in the range of LUs to be assigned from a pool or dedicated to a host.
pool *pool-name*	(Optional) Specifies that each LU in the range of LUs will be assigned from the specified pool.
host *host-name host-lu-start*	(Optional) Specifies that each LU in the range of LUs will be dedicated to a host LU *host-name*. The range of host LUs starts with the address *host_lu_start*.
pu *pu-name*	(Optional) Specifies the downstream PU for which this range of LUs is being defined.

[**no**] **dspu pool** *pool-name* **host** *host-name* **lu** *lu-start* [*lu-end*] [**inactivity-timeout** *inactivity-minutes*]

Use the **dspu pool lu** global configuration command to define a range of host LUs in an LU pool. Use the **no** form of this command to remove the definition.

pool-name	Specifies the name identifier of the pool.
host *host-name*	Specifies the name of the host that owns the range of host LUs in the pool.
lu *lu-start*	Specifies the starting LU address in the range of host LUs in the pool.

lu-end	(Optional) Specifies the ending address (inclusive) of the range of host LUs in the pool. If no ending address is specified, only one LU (identified by *lu-start*) will be defined in the pool.
inactivity-timeout *inactivity-minutes*	(Optional) Specifies the interval of inactivity (in minutes) on either the SSCP-LU or LU-LU sessions, which will cause the downstream LU to be disconnected from the upstream LU.

[**no**] **dspu pu** *pu-name* [**rmac** *remote-mac*] [**rsap** *remote-sap*] [**lsap** *local-sap*] [**xid-rcv** *xid*] [**window** *window-size*] [**maxiframe** *max-iframe*] [**retries** *retry-count*] [**retry-timeout** *retry-timeout*]

Use the **dspu pu** global configuration command to define an explicit downstream PU. Use the **no** form of this command to remove the definition.

pu-name	Name of the downstream PU.
rmac *remote-mac*	(Optional) Specifies the MAC address of the downstream PU.
rsap *remote-sap*	(Optional) Specifies the SAP address of the downstream PU. The default is 4.
lsap *local-sap*	(Optional) Specifies the local SAP address used by the DSPU to establish connection with the downstream PU. The default is 8.
xid-rcv *xid*	(Optional) Specifies a match on XID.
window *window-size*	(Optional) Specifies the send and receive sizes used for the downstream PU link. The range is 1 to 127. The default is 7.

maxiframe *max-iframe*	(Optional) Specifies the maximum I-frame that can be transmitted or received across the link. The range is 64 to 18,432. The default is 1472.
retries *retry-count*	Specifies the number of times the DSPU attempts to retry establishing connection with downstream PU. The range is 0 to 255 (0 = no retry attempts, 255 = infinite retry attempts). The default is 4.
retry-timeout *retry-timeout*	(Optional) Specifies the delay (in seconds) between DSPU attempts to retry establishing connection with downstream PU. The range is 1 to 600 seconds. The default is 30.

[**no**] **dspu rsrb** *local-virtual-ring bridge-number target-virtual-ring virtual-macaddr*

Use the **dspu rsrb** global configuration command to define the local virtual ring, the virtual bridge, the target virtual ring, and the virtual MAC address that the DSPU feature will simulate at the RSRB. Use the **no** form of this command to cancel the definition.

local-virtual-ring	The DSPU local virtual ring number
bridge-number	The bridge number connecting the DSPU local virtual ring and the RSRB target virtual ring. Currently, the bridge number must always be configured with a value of 1.
target-virtual-ring	The RSRB target virtual ring number. The RSRB target virtual ring corresponds to the ring-number parameter defined by a **source-bridge ring-group** command.
virtual-macaddr	The DSPU virtual MAC address.

[**no**] **dspu rsrb enable-host** [**lsap** *local-sap*]

Use the **dspu rsrb enable-host** global configuration command to enable an RSRB SAP for use by DSPU host connections. Use the **no** form of this command to disable the RSRB SAP.

lsap *local-sap*	(Optional) Specifies that the local SAP address will be activated as an upstream SAP for both receiving incoming connections attempts and for starting outgoing connection attempts. The default is 12.

[**no**] **dspu rsrb enable-pu** [**lsap** *local-sap*]

Use the **dspu rsrb enable-pu** global configuration command to enable an RSRB SAP for use by DSPU downstream connections. Use the **no** form of this command to disable the SAP.

lsap *local-sap*	(Optional) Specifies that the local SAP address will be activated as an upstream SAP for both receiving incoming connection attempts and for starting outgoing connection attempts.

[**no**] **dspu rsrb start** {*host-name* | *pu-name*}

Use the **dspu rsrb start** global configuration command to specify that an attempt will be made to connect to the remote resource defined by host name or pu name through the RSRB. Use the **no** form of this command to cancel the definition.

host-name	The name of a host defined in a **dspu host** command.
pu-name	The name of a PU defined in a **dspu pu** command.

[**no**] **dspu start** {*host-name* | *pu-name*}

Use the **dspu start** interface configuration command to specify that an attempt will be made to connect to the remote resource defined by host name or pu name. Use the **no** form of this command to cancel the definition.

host-name	The name of a host defined in a **dspu host** command.
pu-name	The name of a PU defined in a **dspu pu** command.

show dspu [**pool** *pool-name* | [**pu** {*pu-name* | *host-name*} [**all**]]

Use the **show dspu** privileged EXEC command to display the status of the DSPU feature.

pool *pool-name*	(Optional) Specifies the name of a pool of LUs (as defined by the **dspu pool** command).
pu	(Optional) Specifies the name of defined PU (as defined by either the **dspu pu** or the **dspu host** command).
pu-name	The name of a PU defined in a **dspu pu** command.
host-name	The name of a host defined in a **dspu host** command.
all	(Optional) Show a detailed status.