PPRC TSO Commands Description

CDELPAIR – Delete PPRC Pairs
The CDELPAIR command specifies the primary and secondary volumes to remove from PPRC.

CDELPATH – Delete Paths
The CDELPATH command deletes all established PPRC paths between the source and target subsystems.

CESTPAIR – Establish Pairs
The CESTPAIR command establishes the PPRC relationship between the source and target volumes.

CESTPATH – Establish Paths
The CESTPATH command to establishes ESCON or FCP (fibre channel protocol) paths between a source and target subsystem (Global Copy) or between a master ESS and ESS subordinates in a Global Mirror session.

CGROUP – Controls Volume Groups
Controls the operation of PPRC volume pairs on a logical subsystem or single storage control: **CGROUP FREEZE** suspends mirroring, and **CGROUP RUN** re-establishes mirroring.

CQUERY – Query PPRC Status
The CQUERY command to queries PPRC status for volumes and paths. The CQUERY command can be issued to either the primary or secondary volumes, however if the host system does not have connectivity to either volume, information about that volume cannot be returned.

CRECOVER – Recover the volumes
The CRECOVER command is issued from the recovery system to gain control of a disk volume on its DASD subsystem or storage control. It forces the secondary volume into simplex state and can relable the volume if desired.

CSUSPEND – Suspend PPRC Pairs
The CSUSPEND command suspends PPRC sessions between primary and secondary volume pairs. PPRC stops transferring data to the secondary volume. Changes occurring on the primary subsystem are recorded in a bitmap in the control unit unless the PRIMARY operand is used.

Related / Useful z/OS Operator Commands

DEVSERV—Query Device
The DS QD command provides useful information about a device address including the associated SSID, CU Serial Number, and volume serial information.

`DS QD,nnnn,1,TYPE=ALL` (where nnnn is the unit address)

DEVSERV PATHS—Query Paths
The DS QP command displays information about the channel paths defined to the device.

`DS QP,nnnn`

Recovery Specialties, LLC

5731 Mustang Drive, Suite 102
Simi Valley, Ca. 93063-6312

Phone: 805-581-3227
Fax: 805-581-3227
E-mail: info@recoveryspecialties.com
URL: http://recoveryspecialties.com

Recovery Specialties

Enterprise Storage, Disaster Recovery & Business Continuity Consulting

Global Copy & Global Mirror (PPRC) Command Reference Summary

November 2006

The information contained in this document was derived from IBM's *"z/OS Advanced Copy Services"* V1R7 publication number SC35-0428-08. Please refer to that publication for more complete information.

PPRC TSO *Commands*

CDELPAIR Syntax

CDELPAIR DEVN(*device_number*) -
PRIM(*ssid serialno cca|lun lss*) -
SEC(*ssid serialno cca|lun lss*) -
OPENDVCS(YES |NO)

CDELPAIR Examples

For CKD volumes:

CDELPAIR DEVN(X'D204') -
PRIM(X'1112' 12345 X'04') -
SEC(X'111A' 98765 X'04')

For CKD volumes in logical subsystems:

CDELPAIR DEVN(X'D370') -
PRIM(X'1112' 12345 X'20' X'02') -
SEC(X'111A' 98765 X'20' X'02')

For open system volumes:

CDELPAIR DEVN(X'1420') -
PRIM(X'FFFF' 76543 X'7C' X'16') -
SEC(X'FFFF' 76544 X'7D' X'17') -
OPENDVCS(YES)

CDELPATH Syntax

CDELPATH DEVN(*device_number*) -
PRIM (*ssid serialno|wwnn lss*) -
SEC (*ssid serialno|wwnn lss*)

CDELPATH Examples

CDELPATH DEVN(X'D37'4) -
PRIM(X'1112' 12345) SEC(X'111A' 98765)

CDELPATH DEVN(X'D370') -
PRIM(X'1112' 12345 X'06') -
SEC(X'111A' 98765 X'07')

CDELPATH DEVN(X'F920') -
PRIM(X'1112' 2411598764C11AAA X'06') -
SEC(X'111A' 2411598764C37AAA X'07')

These PPRC commands may be issued against the Primary device:

CDELPAIR CDELPATH
CESTPAIR CESTPATH
CGROUP

These PPRC commands may be issued against the Primary OR Secondary device:

CQUERY CRECOVER
CSUSPEND

CESTPAIR Command Syntax

CESTPAIR DEVN(*device_number*) -
PRIM(*ssid serialno cca|lun lss)* -
SEC(*ssid serialno cca|lun lss*) OPENDVCS(YES|NO) -
CASCADE(YES|NO) OPTION(SYNC|XD) -
MODE(COPY|NOCOPY|RESYNC) PACE(n) -
CRIT(YES|NO) ONLISEC(YES|NO) -
ACTION(FAILOVER|FAILBACK) MSGREQ(YES|NO)

CESTPAIR Command Examples

For CKD volumes:

CESTPAIR DEVN(X'D402') PRIM(X'D400' 24886 X'02' X'06') -
SEC(X'7300' 46807 X'09' X'03') OPTION(XD) -
MODE(COPY) CRIT(NO)

For open system volumes:

CESTPAIR DEVN(X'0240') PRIM(X'FFFF' 42685 X'0A' X'10') -
SEC(X'FFFF' 37940 X'4D' X'18') OPENDVCS(YES) -
MODE(COPY)

CESTPATH Syntax

CESTPATH DEVN(*device_number*) -
PRIM (*ssid serialno|wwnn lss*) -
SEC (*ssid serialno|wwnn lss*) -
LINK(*linkaddr*) CGROUP(Yes |NO) RESETHP(Yes|No)

CESTPATH Examples

CESTPATH DEVN(X'0142') PRIM(X'2114' 58119) -
SEC(X'2115' 12345) LINK(X'0004A100')

CESTPATH DEVN(X'D200') PRIM(X'D200' 32178 X'02') -
SEC(X'E200' 37831 X'07') LINK(X'0028E007') -
RESETHP(YES)

CESTPATH DEVN(X'F920') PRIM(X'1112' 11123 X'06') -
SEC(X'111A' 68247 X'07') LINK(X'0004A100') -
CGROUP(YES)

CESTPATH DEVN(X'A347') -
PRIM(X'A300' 2411598764C56560 X'03') -
SEC(X'D400' 2411598764D43584 X'04') -
LINK(X'00240028') CGROUP(YES)

CGROUP Command Syntax

CGROUP DEVN(*device_number*) PRIM(*ssid serialno lss*) -
SEC(*ssid serialno lss*) FREEZE RUN

CGROUP Command Examples

CGROUP DEVN(X'2420') PRIM(X'2114' 58119) -
SEC(X'2115' 12345) FREEZE

CGROUP DEVN(X'9700') PRIM(X'2114' 58119) -
SEC(X'2115' 12345) RUN

CGROUP DEVN(X'1203') PRIM(X'3118' 58119 X'06') -
SEC(X'4118' 12345 X'06') FREEZE

CGROUP DEVN(X'4423') PRIM(X'3118' 58119 X'06') -
SEC(X'4118' 12345 X'06') RUN

CQUERY Syntax

CQUERY DEVN(*device_number*) -
ODEVN(*serno lun lss*) BITMAP VOLUME NOBITMAP -
PATHS FORMAT UNFORMAT

CQUERY Command Examples

CQUERY DEVN(X'1234') PATHS UNFORMAT
CQUERY DEVN(X'1234') VOLUME
CQUERY DEVN(X'1234') NOBITMAP
CQUERY DEVN(X'1234') VOLUME BITMAP
CQUERY DEVN(X'0EF9') ODEVN(X'87437' X'8C' X'17')

CRECOVER Syntax

CRECOVER DEVN(*device_number*) -
PRIM(*ssid serialno cca|lun lss*) -
SEC(*ssid serialno cca|lun lss*) -
OPENDVCS(YES|NO) ID(*old volser | new volser}*

CRECOVER Example

For CKD device:

CRECOVER DEVN(X'1234') PRIM(X'2114' 58119 X'04') -
SEC(X'2115' 12345 X'09') ID(OLD408 NEW508)

For open device:

CRECOVER DEVN(X'F908') -
PRIM(X'FFFF' 32496 X'6A' X'11') -
SEC(X'FFFF' 32010 X'D4' X'1A') OPENDVCS(YES)

CSUSPEND Syntax

CSUSPEND DEVN(*device_number*) -
PRIM(*ssid serialno cca|lun lss*) -
SEC(*ssid serialno cca|lun lss*) -
OPENDVCS(YES |NO) PRIMARY

CSUSPEND Examples

For CKD device:

CSUSPEND DEVN(X'B3C4') -
PRIM(X'B300' 53114 X'C4' X'03') -
SEC(X'9500' 58036 X'29' X'05')

For Open Device:

CSUSPEND DEVN(X'4624') -
PRIM(X'FFFF' 53114 X'49' X'18') -
SEC(X'FFFF' 87663 X'32' X'14') OPENDVCS(YES)

Notes:
lss is required if the storage control supports logical subsystems
DEVN primary device number—4 digit HEX