

## ESS PPRC Extended Distance Support for z/VM and VSE/ESA Users

On April 23, 2002, IBM announced a new Peer-to-Peer Remote Copy capability called PPRC Extended Distance (PPRC-XD), a non-synchronous long distance copy option suitable for data migration and periodic off-site backup. PPRC-XD can operate at very long distances -- distances well beyond the 103 km supported with PPRC synchronous transmissions -- with the distance typically limited only by the capabilities of the network and channel extension technologies. ICKDSF will not be enhanced to support PPRC Extended Distance. Support for previous levels of PPRC will remain in ICKDSF.

PPRC-XD is provided with the PPRC optional feature on the ESS (#182x). It is managed via a Web interface provided through the IBM TotalStorage Enterprise Storage Server Specialist. It is also supported by the ESS Command Line Interface (CLI) in selected open systems environments and by TSO commands in z/OS and OS/390.

Users who require ICKDSF to control and manage Peer-to-Peer Remote Copy (PPRC) command functions are required to use the IBM TotalStorage™ Enterprise Storage Server™ Web Copy Services capabilities if they want to use Extended Distance PPRC. Thus all PPRC command functions will be performed by Web Copy Services functions instead of using ICKDSF commands to control PPRC extended distance sessions.

The following information will aid in identifying the different ICKDSF command functions and terms vs. Web Copy Service functions and terms. The documents referenced below are the new Redbook ***IBM TotalStorage Enterprise Storage Server: PPRC Extended Distance*** (SG24-6568) and the updated ***IBM TotalStorage Enterprise Storage Server: Web Interface Users' Guide*** (SC26-7346). The format that follows shows the ICKDSF PPRCOPY command functions and then references in the Web Interface Users' Guide and then those in the Redbook.

## ICKDSF Peer-to-Peer Remote Copy Command Functions

1. **PPRCOPY ESTPATH** -- Establishing paths between the primary and secondary ESS.

Web Interface Users' Guide:

Chapter 3: Using ESS Copy Services

Section: Using the Paths panel

Subsection: Establishing paths

ESS PPRC Extended Distance Redbook:

Chapter 3: PPRC configuration and data consistency

Section: PPRC configuration

Subsection: Defining paths between two LSSs

2. **PPRCOPY DELPATH** -- Deleting paths between the primary and secondary ESS.

Web Interface Users' Guide:

Chapter 3: Using ESS Copy Services

Section: Using the Paths panel

Subsection: Removing paths

Section: Using the Logical Subsystems panel

Subsection: Removing orphaned paths

**Note:** MSGREQ is not required for web copy services support

3. **PPRCOPY ESTPAIR** -- Establishing pairs between primary and secondary disks.

Web Interface Users' Guide:

Chapter 3: Using ESS Copy Services

Section: Using the Volumes panel

Subsection: Establishing a synchronous PPRC copy pair

Subsection: Establishing an extended distance PPRC copy pair

Subsection: Converting an extended distance PPRC pair to a synchronous pair

Subsection: Resynchronizing PPRC copy pairs

Section: Using the Logical Subsystems panel

Subsection: Establishing PPRC copy pairs for all volumes in a source LSS and all volumes in a target LSS

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Subsection: Resynchronizing PPRC copy pairs for all volumes in a source LSS and all volumes in a target LSS

## ESS PPRC Extended Distance Redbook:

Appendix A: ESS Specialist, creation of tasks

Section: Copy Services tasks step by step

Subsection: Establish PPRC XD Pair -- Copy entire volume  
[EST\_PPRC\_XD\_V1]

**Note:** MSGREQ and PACE are not required for web copy services support

## 4. PPRCOPY DELPAIR -- Deleting pairs between primary and secondary disks.

### Web Interface Users' Guide:

Chapter 3: Using ESS Copy Services

Section: Using the Volumes panel

Subsection: Terminating a PPRC copy pair

Subsection: Terminating a PPRC copy pair when only one volume is visible to the ESS Copy Services client

Section: Using the Logical Subsystems panel

Subsection: Terminating PPRC copy pairs for all volumes in a source LSS and all volumes in a target LSS

## ESS PPRC Extended Distance Redbook:

Appendix A: ESS Specialist, creation of tasks

Section: Copy Services tasks step by step

Subsection: Terminate PPRC Pair [TERM\_PAIR\_V1\_S]

**Note:** MSGREQ is not required for web copy services support

## 5. PPRCOPY SUSPEND -- Suspending pairs of disks.

### Web Interface Users' Guide:

Chapter 3: Using ESS Copy Services

Section: Using the Volumes panel

Subsection: Suspending a PPRC copy pair

Subsection: Suspending a PPRC copy pair when only one volume is visible to the ESS Copy Services client

Section: Using the Logical Subsystems panel

Subsection: Suspending PPRC copy pairs for all volumes in a source LSS and all volumes in a target LSS

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## ESS PPRC Extended Distance Redbook:

Appendix A: ESS Specialist, creation of tasks

Section: Copy Services tasks step by step

Subsection: Suspend PPRC Pair [SUSP\_PPRC\_V1\_S]

**Note:** PRIMAINIT is not supported in Web Copy Services

## 6. PPRCOPY RECOVER -- Recovering disks on the secondary system.

### Web Interface Users' Guide:

Chapter 3: Using ESS Copy Services

Section: Using the Volumes panel

Subsection: Terminating a PPRC copy pair when only one volume is visible to the ESS Copy Services client

Section: Using the Logical Subsystems panel

Subsection: Terminating PPRC copy pairs for all volumes in a source LSS and all volumes in a target LSS

Chapter 4: Disaster Recovery

**Note:** VERIFY/NOVERIFY is not supported by web copy services support. You cannot modify the volume labels using the Copy Services Web user interface.

## 7. PPRCOPY QUERY -- Querying the status of volumes and paths.

### Web Interface Users' Guide:

(With the PATHS parameter)

Chapter 3: Using ESS Copy Services

Section: Using the Paths panel

Subsection: Viewing information about paths

(Without the PATHS parameter)

Chapter 3: Using ESS Copy Services

Section: Using the Logical Subsystems panel

Subsection: Viewing information about a volume