

Power775
Distributed Converter and Control Assembly (DCCA)
Service Network Communications Cable Service Procedure
Last Modified 9/30/2011



Power775 Distributed Converter and Control Assembly (DCCA) Service Network
Communications Cable Service Procedure
PN: 41U8493, EC N44172

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1 GENERAL

1.1 Release / Revision History

Document Name	Date	PDF name	Description
Power775 Distributed Converter and Control Assembly (DCCA) Service Network Communications Cable Service Procedure	9/30/2011	"p775_dcca_srv_netwk_cable.pdf"	Initial Release

Table 1 Release / Revision History

1.2 Where to find this document, and contents of the parent PDF

The current Power775 Distributed Converter and Control Assembly (DCCA) Service Network Communications Cable Service Procedure document is "p775_dcca_srv_netwk_cable.pdf" which is to be downloaded from:

InfoCenter Website: <http://publib.boulder.ibm.com/infocenter/powersys/v3r1m5/topic/p7ee2/p7ee2kickoff.htm>

Click "PDF files for the IBM Power 775 (9125-F2C) removing and replacing parts"

Under "Frame Power Components", click "Power775 Distributed Converter and Control Assembly (DCCA) Service Network Communications Cable Service Procedure" to download PDF "p775_dcca_srv_netwk_cable.pdf"

This is the only valid source for the latest Power775 Distributed Converter and Control Assembly (DCCA) Service Network Communications Cable Service Procedure.

1.3 Required Documents

Document	Doc Number	Location
Safety Notices http://publib.boulder.ibm.com/infocenter/powersys/v3r1m5/topic/p7hdx/G229-9054.pdf	Doc# G229-9054	InfoCenter *

Table 2 Required Documents

*InfoCenter Website: <http://publib.boulder.ibm.com/infocenter/powersys/v3r1m5/topic/p7ee2/p7ee2kickoff.htm>

1.4 Related Documents

Document	Doc Number	Location
"GPFS Native RAID Administration and Programming Reference"	SA23-1354	InfoCenter *

Table 3 Related Documents

*InfoCenter Website: <http://publib.boulder.ibm.com/infocenter/powersys/v3r1m5/topic/p7ee2/p7ee2kickoff.htm>

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1.5 Abbreviations

Abbreviation	Definition	Details
CEC	Central Electronic Complex	Also referred to as the node.
DCCA	Distributed Conversion and Control Assembly	The power supplies for CEC and DE are called the CEC DCCA and DE DCCA respectively
DE	Disk Enclosure	
GPFS	Global Parallel File System	IBM's file system utilizing software RAID
HDD	Hard Disk Drive	This also means hard drive
LED	Light Emitting Diode	
PCB	Printed Circuit Board	
RAID	Redundant Array of Inexpensive Disks	
SAS	Serial Attached SCSI	Protocol used for direct attached storage
SSR	System Service Representative	IBM Service personnel
SSD	Solid State Drive	
UEPO	Unit Emergency Power Off	
UPIC	Universal Power Interface Cable	Power Cable for WCU

Table 4 Abbreviations

2 OVERVIEW

This section is an overview only. Do not start the service procedure until Section 3 which contains the detailed steps.

2.1 Safety Notices

Read “Safety_Notices “ available from InfoCenter at this link:
<http://publib.boulder.ibm.com/infocenter/powersys/v3r1m5/topic/p7hdx/G229-9054.pdf>

The following cautions apply to all Power775 service procedures:

CAUTION:

Energy hazard present. Shorting might result in system outage and possible physical injury. Remove all metallic jewelry before servicing. (C001)

CAUTION:

The doors and covers to the product are to be closed at all times except for service by trained service personnel. All covers must be replaced and doors locked at the conclusion of the service operation. (C013)

CAUTION:

Service of this product or unit is to be performed by trained service personnel only. (C032)

The following notices specifically pertain to this Power775 service procedure.



DANGER: Hazardous voltage present. Voltages present constitute a shock hazard, which can cause severe injury or death. (L004)

2.2 File System Risk Statement

The Global Parallel File System (GPFS) implementation of software RAID stripes data across all the Disk Enclosures in the cluster. **If servicing a CEC Drawer supporting a Service Node or a GPFS node while in N-mode for DCCAs, you must take special care to replace the correct communications cable. If servicing a Disk Enclosure while in N-mode for DCCAs, you must take special care to replace the correct communications cable.**

2.3 Confirm how you got to this Power 775 Distributed Converter and Control Assembly (DCCA) Service Network Communications Cable Service Procedure

You should be performing this procedure if: An SRC directed you to replace a DCCA Communications Cable

You should have downloaded this procedure from:

InfoCenter Website: <http://publib.boulder.ibm.com/infocenter/powersys/v3r1m5/topic/p7ee2/p7ee2kickoff.htm>

This is the only valid source for the latest Power775 Distributed Converter and Control Assembly (DCCA) Service Network Communications Cable Service Procedure

2.4 Distributed Converter and Control Assembly (DCCA) Service Network Communications Cable Description

Referring to Figure 1 below, DCCA Communications cables are located in front of each CEC drawer (or Disk Enclosure), and terminate in the top/front of the system on each Bulk Power Controller Hub (BPCH) unit.

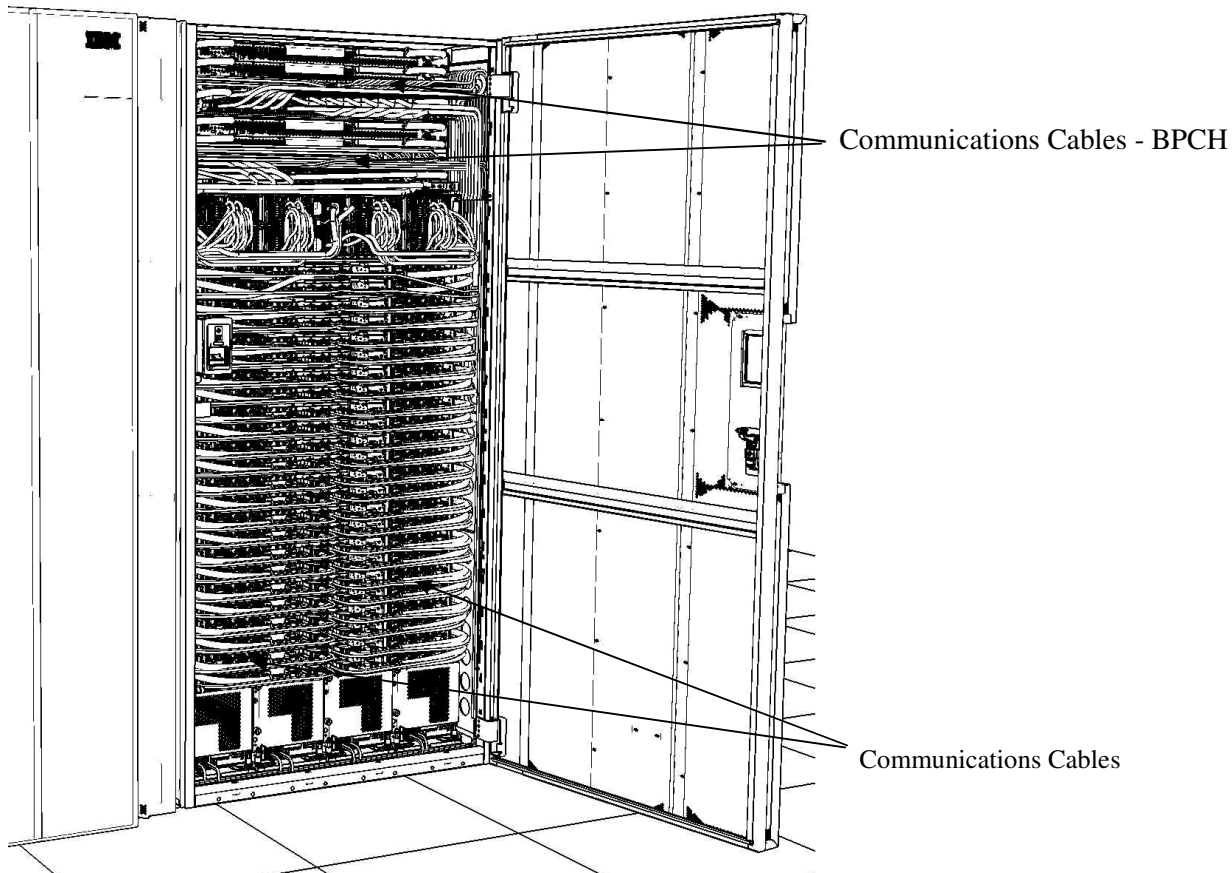


Figure 1 DCCA Communications Cable Locations

2.5 Background

All Communications Cables (E-Net) are located in the front of the rack. For each CEC drawer, there are four E-Net cables which carry signals from the BPCH at the top of the system, to each of the CEC Drawer's two DCCAs. Each Disk Enclosure also has four E-Net cables which connect the BPCH to each of the Disk Enclosure's two DCCAs. In order to manage the potentially large cable bulk in the rack, these cables require a specific routing and placement within cable management raceways which are nested in the sides of the rack. This cable management approach ensures that the drawers can be serviced in the future with minimal interference with adjacent cables, while controlling the cable paths allowing the front cover to close properly. The cable raceways consist of 3 major sections: 1) long (drawer location 5, 7, 9, 11), 2) medium (drawer location 13, 15, 17, 19), and 3) short (drawer location 21, 23, 25, 27). Cables for the top disk enclosure (drawer location 29), do not reside in the raceways. Raceways are located on both the left and right sides of the rack. Cables exiting the CEC Drawers or DEs on the right side of the rack terminate to the upper BPCH. Cables exiting the CEC Drawers or DEs on the left will terminate to the lower BPCH. Each raceway has 4 slots (one slot per CEC Drawer or DE). Each slot manages cables for one CEC Drawer or DE. Within a raceway slot, there are 4 cable positions, 2 positions for communications cables at the base, and 2 positions above them for the larger DCCA Power Cables. These cables are snapped into the plastic fingers and held in place by grooves within the fingers. To properly fit within the raceway, all cables

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must be placed in their exact position with no twists or kinks. See Figure 2 below for typical placement. Because the raceways are nested along the sides of the rack behind the front faces of the drawers, the entire raceway (with cables) must be shifted forward and partially removed until the defective cable can be located and replaced.

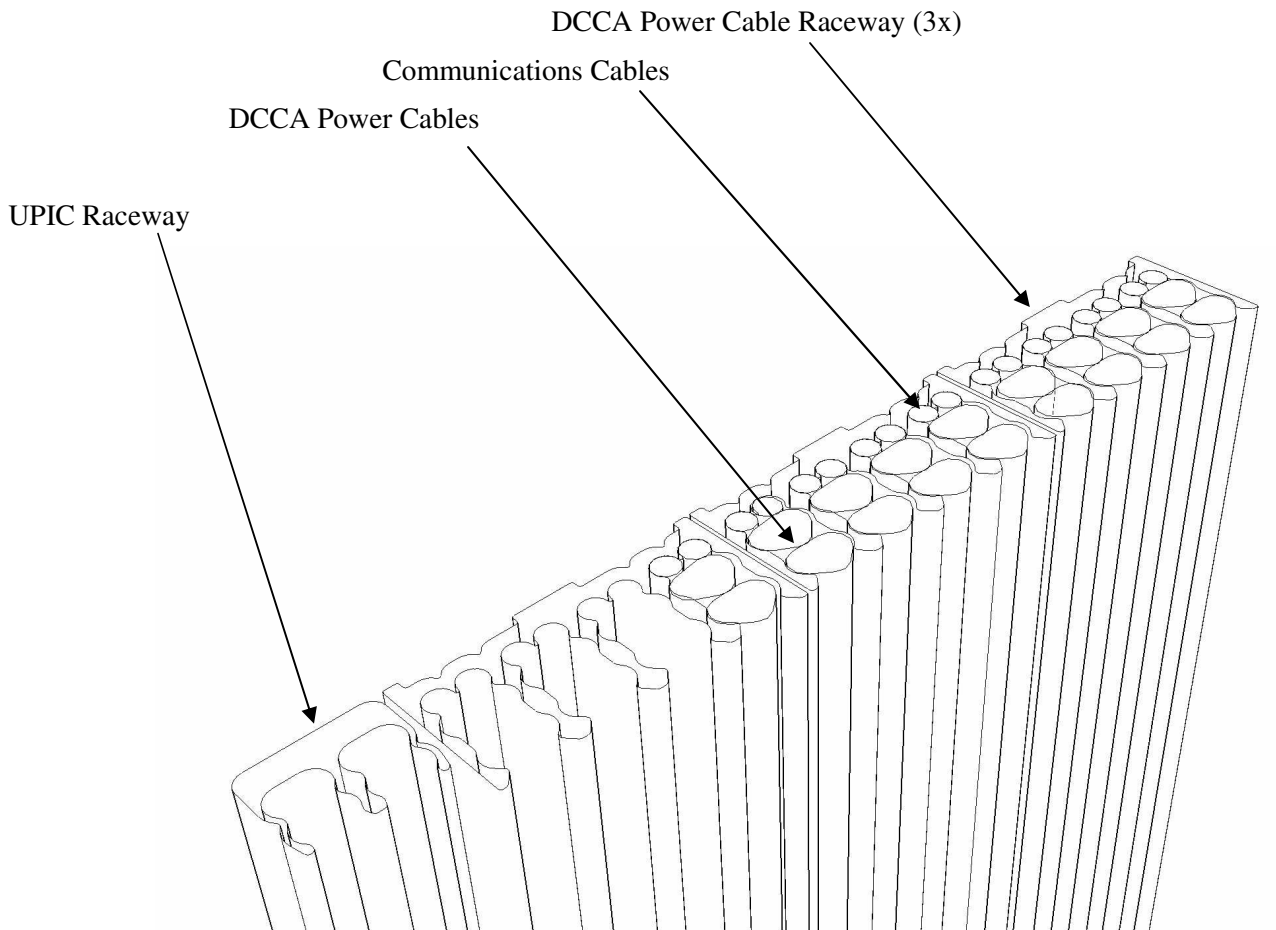


Figure 2 Typical Raceway Cross Section

2.6 Concurrency

The communications cables are concurrently maintainable.

2.7 Distributed Converter and Control Assembly (DCCA) Service Network Communications Cable Weight

Although communications cables weigh 1 lbs (0.43 kg) or less depending on their length, a populated raceway with cables can weigh up to 12 lbs (5.44 kg).

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2.8 Required SSRs and Roles

This service procedure requires 1 SSR.

2.9 Estimated Service Time

It can take up to 2 hours to perform this procedure depending on the particular communications cable requiring service.

2.10 P7IH Hand Tool Kit Required Tools

- 4mm Hex Driver (1.5-1.75 Nm torque setting) PN 41V1059*
- 2mm hex driver (P/N 74Y0983)
- 3/8" drive ratchet (P/N 6428140) depending on the communications cable location **
- 3/8" drive extension (P/N 46K2707) **
- 5mm hex socket bit (P/N 74Y0986) **
- Torque clutch (P/N 74Y0985) **
- 3/8" drive 16mm socket (P/N 5497568) **
- Velcro puck (P/N 31L7174)

* 4mm hex driver not required if servicing communications cables on the right side of the system

** These tools are only required when servicing cables for drawers in lower rack slots 5 through 11 (first four lower CEC drawers or DEs)

2.11 Prerequisites for this Procedure

In order to perform this procedure, you will need the following information:

- 1) The location code of the FRU to be serviced
 - 2) The cage location of the FRU to be serviced
 - 3) The frame number and frame serial number of the frame containing the FRU to be serviced
-

2.12 Overview of Procedure

This is an overview of the tasks to be performed. Read this overview but do not perform any of the tasks yet.

3.1	IDENTIFY CAGE WITH CABLE REQUIRING SERVICE <= SSR TASK	10
3.2	REMOVE MECHANICALS AND COMMUNICATIONS CABLE <= SSR TASK	15
3.3	RE-INSTALL MECHANICALS AND REPLACEMENT CABLE <= SSR TASK	20

3 SERVICE PROCEDURE

3.1 Identify Cage With Cable Requiring Service <= SSR TASK



DANGER: Hazardous voltage present. Voltages present constitute a shock hazard, which can cause severe injury or death. (L004)

STEP 1 Determine with the customer which is the primary HMC that manages the Frame and CEC Drawer or DE to be serviced.

Note: The HMC can be accessed via the keyboard/display that resides in the management rack or by plugging a laptop into the BPCH of the rack where the service will be performed.

STEP 2 In the Navigation menu on the HMC, expand **Systems Management** then select **Servers**

Are you are servicing a cable on a CEC Drawer?

If Yes, then perform STEP 3 to STEP 6, then skip to STEP 8

If No(performing cable service on a DE), then skip to STEP 7

STEP 3 Place a checkmark in the Select column of the CEC Drawer that you want to flash the DCCA Identify LED on. You will flash the DCCA Identify LED to verify that you are servicing the appropriate Communications Cable. Note the UEPO switch identify LED will also flash.

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STEP 4 From the **Tasks** menu *select* **Operations -> LED Status -> Identify LED**. See Figure 3.

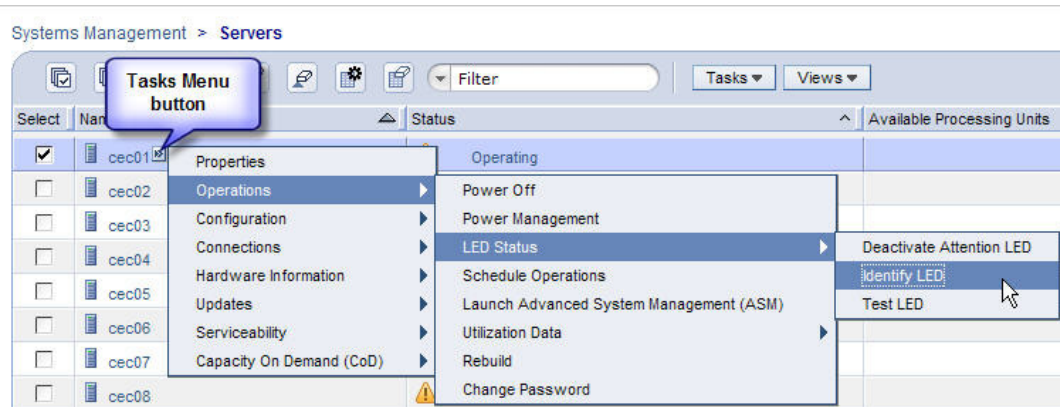


Figure 3 Identify LED Selection

STEP 5 In the window titled **Identify LED**, *select* **System Unit, Model F2C** then *click* the **List FRUs...** button. See Figure 4.

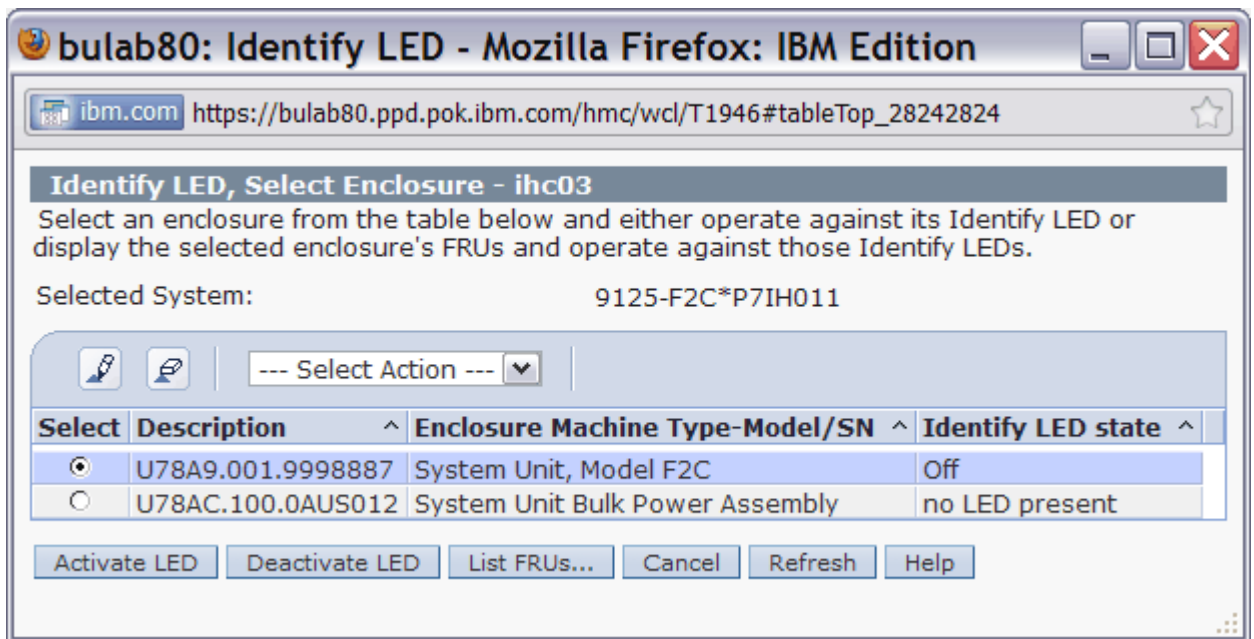


Figure 4 System Unit, Model F2C Selection

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STEP 6 To flash the CEC Drawer DCCA Identify LED and UEPO switch: In the window **Identify LED, Select Location**, place a checkmark in the Select column for the DCCA Location Code requiring communications cable service and then *click* the **Activate LED** button. Figure 5 shows the example of flashing the DCCA Identify LED in **U78A9.001.[Serial#]-P1-C147** : this is the top DCCA in the CEC Drawer. To select lower DCCA of the CEC Drawer you would select **U78A9.001.[Serial#]-P1-C148**. Skip to STEP 8.

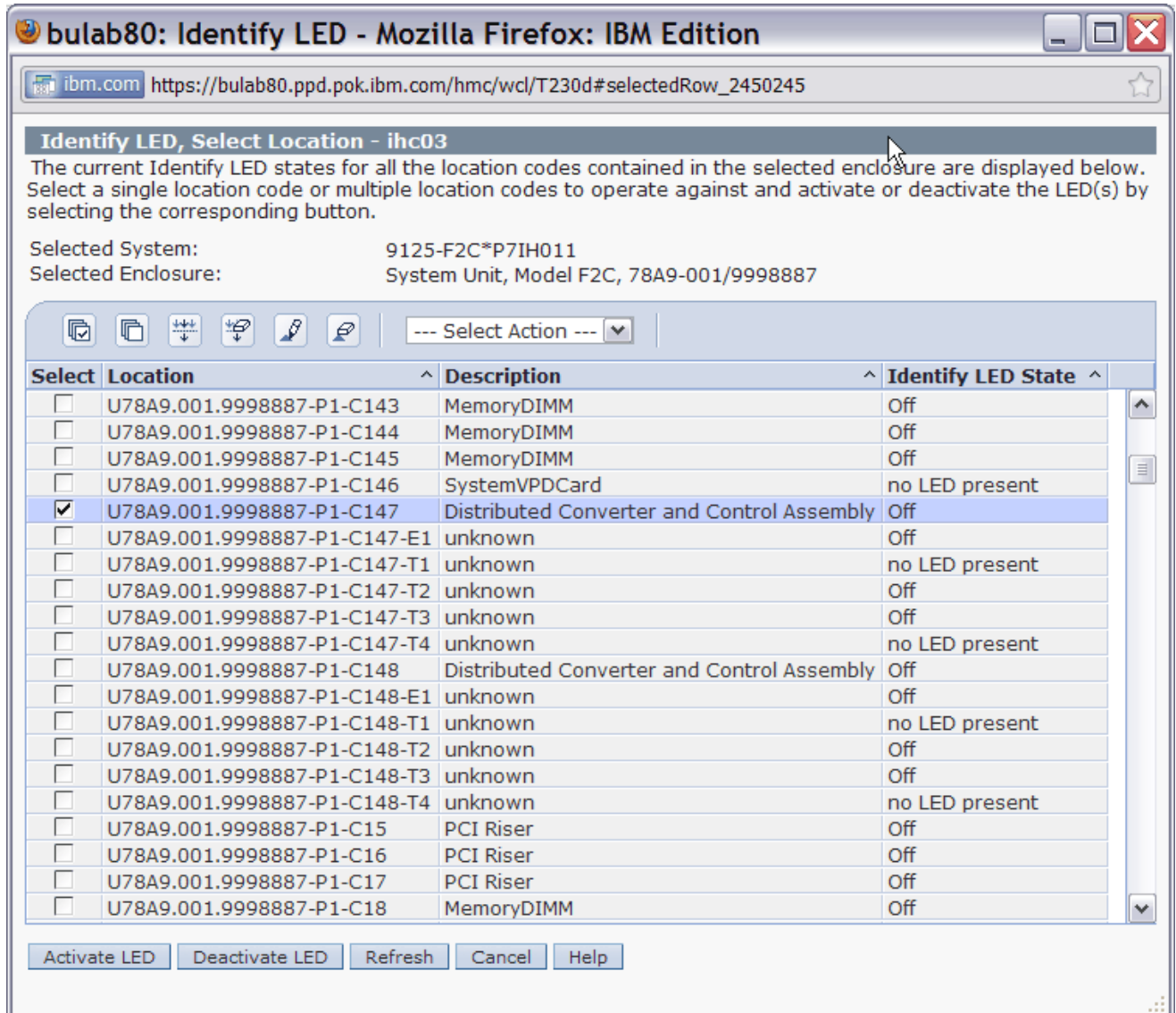


Figure 5 DCCA Identify LED Selection

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STEP 7 To flash the DE DCCA Identify LED and UEPO switch, use the procedure “Appendix A: Power775 BPC FSP Command Line Procedure” (included in Section 5 of this document) to access the BPC FSP command line, and issue the following command:

```
bpccmd -c 27110000<CageID><FF>02
```

Where CageID is the 2 character Hex value for the Disk Enclosure(Figure 6).

FF is the fru id, it is 90 for DCCA1 and 91 for DCCA2

For Disk Enclosures:

DCCA1 is the left DCCA - 90

DCCA2 is the right DCCA – 91

A successful return code is: ‘001100’. If you do not receive a successful return code, contact next level of support.

Example:

```
bpccmd -c 271100000f9002
```

Executes the command on DCCA1(left DCCA) of the DE installed in Cage 0f

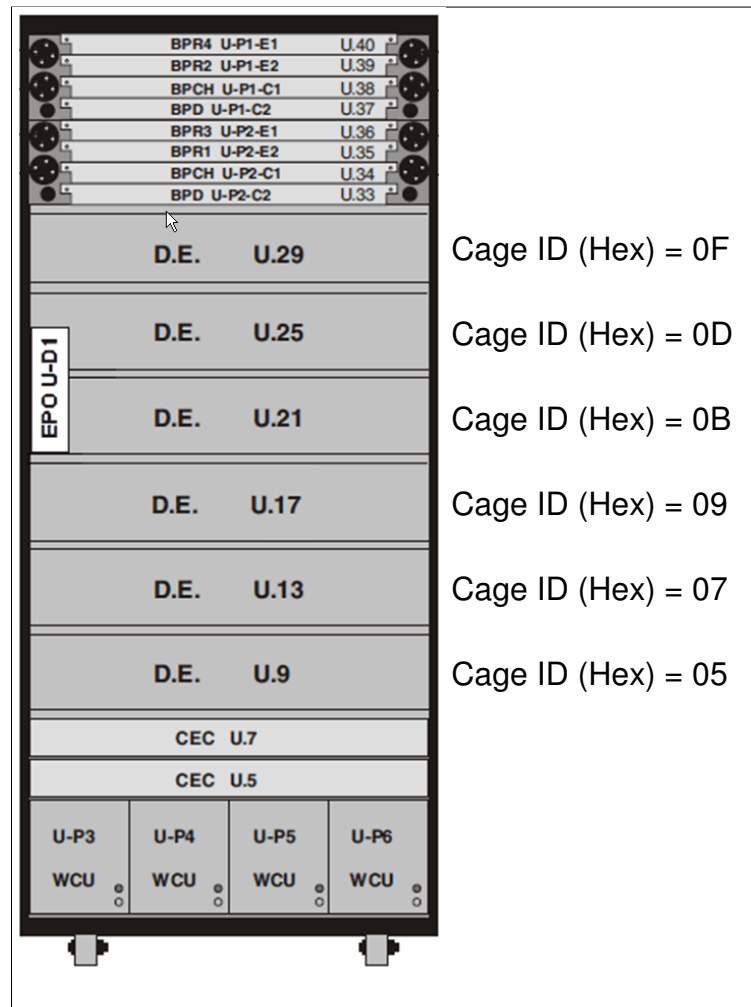


Figure 6 Disk Enclosure HEX Cage ID

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STEP 8 Locate and confirm the Frame selected now has a flashing UEPO Switch Identify LED and is the frame you plan to perform a service action on.

STEP 9 After locating the Frame that requires the service

- a) Open the front door
- b) Verify the Frame and CEC Drawer or DE serial numbers to ensure the correct location
- c) For a CEC Drawer, verify the DCCA Communications Port ID LED is flashing that requires cable service. For a DE, verify the DCCA Identification LED is flashing for the DCCA that requires cable service.

3.2 Remove Mechanicals and Communications Cable <= SSR TASK

- STEP 10 If servicing a DCCA Communication Cable that is routed on the left side of the Frame:
- a) Reposition the UEPO to the upper service position. This provides adequate service clearance to manipulate cables.
 - a. Using 4mm hex driver 41V1059, fully loosen the blue captive retention screw at the base of the UEPO chassis.
 - b. Leaving the cables attached and switch in the on position, shift the unit upward to disengage it from the rack
 - c. Reattach the UEPO Switch in the upper left corner of the rack in the service/shipping position. (see Figure 7).
 - b) Remove the cover latch bracket on the left vertical rack member using the 4mm hex driver 41V1059. (See Figure 8)

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Upper UEPO Mounting Bracket

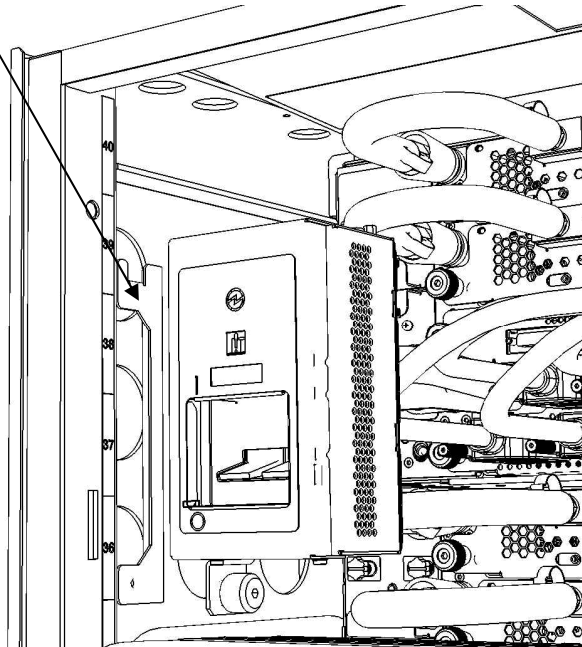


Figure 7 UEPO Service Position

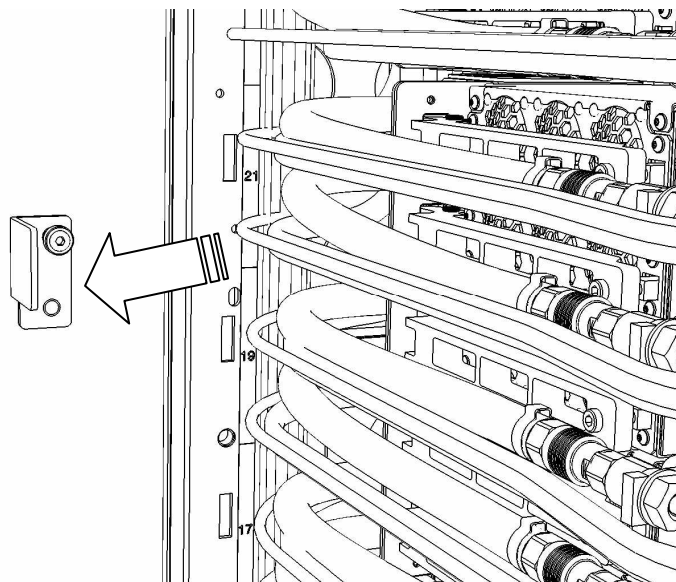


Figure 8 Remove Cover Latch Bracket

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- STEP 11 Unplug the target Communications Cable from the DCCA
- a) Determine the exact communications cable requiring replacement.
 - b) Unplug the communications cable connector from the CEC DCCA (or Disk Enclosure DCCA) by pressing the retention latch on the connector housing, then remove the connector from the receptacle.
 - c) Record the information on the plugging designation label flag on the cable for future reference. (see photo in Figure 9 below)

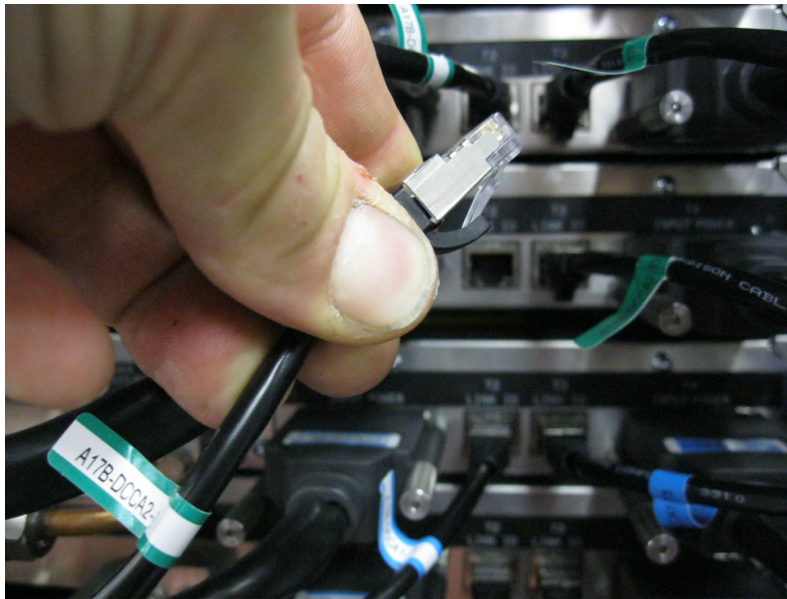


Figure 9 Typical Communications Cable

- STEP 12 Remove Velcro strap securing communications cable to front of CEC Drawer or Disk Enclosure
- Because CEC drawers and DEs are populated from the bottom up within the rack, cables for the lower CEC Drawers and DEs are nested further back along the sides of the rack, As a result, some raceways will have to be shifted forward and removed from the rack to locate and replace the desired communications cable.
- STEP 13 Remove the DCCA Power Cable raceway for the target cable:
- a) Loosen the UPIC raceway retention bracket screw using the 1/4" drive ratchet and 7mm socket and slide screw and bracket forward (see photos in Figure 10 below).
 - b) Shift the UPIC raceway upward, then remove it from the rack (see photo in Figure 11).

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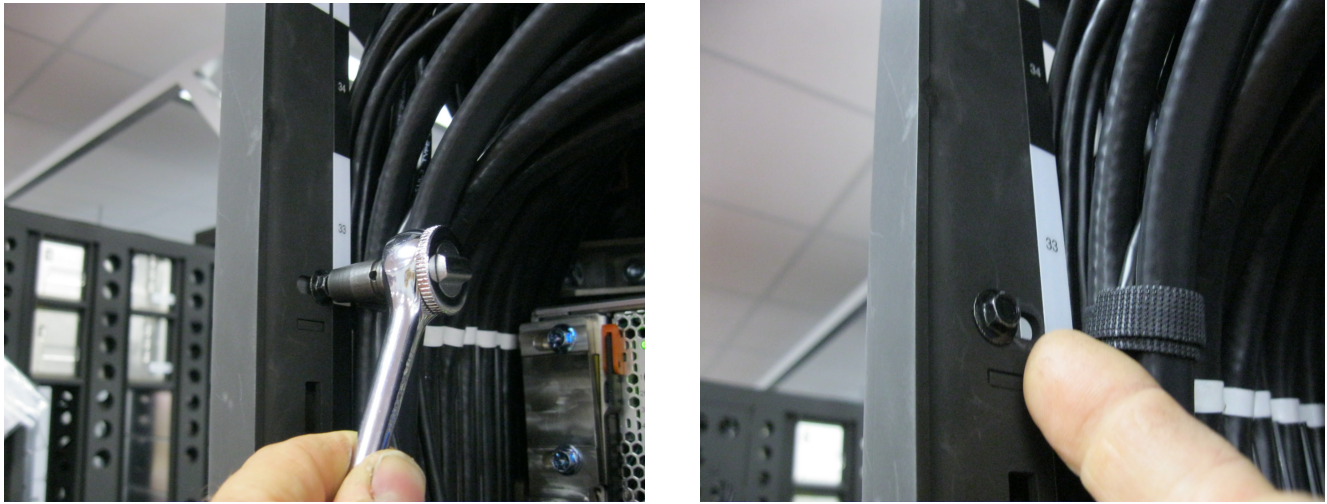


Figure 10 Raceway Retention Screw

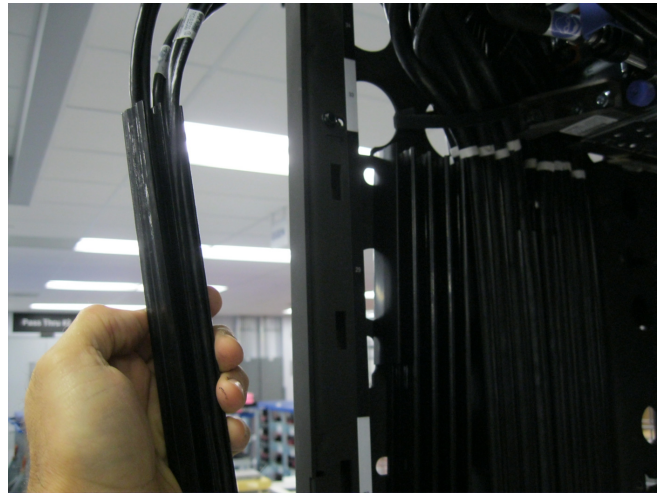


Figure 11 UPIC Raceway Removal

STEP 14 Once the UPIC raceway has been removed, slide the first DCCA Power Cable raceway forward until it disengages from the mounting slots. It can then be removed from the rack. Repeat this process until the desired communications cable is located (see photos in Figure 12 below).

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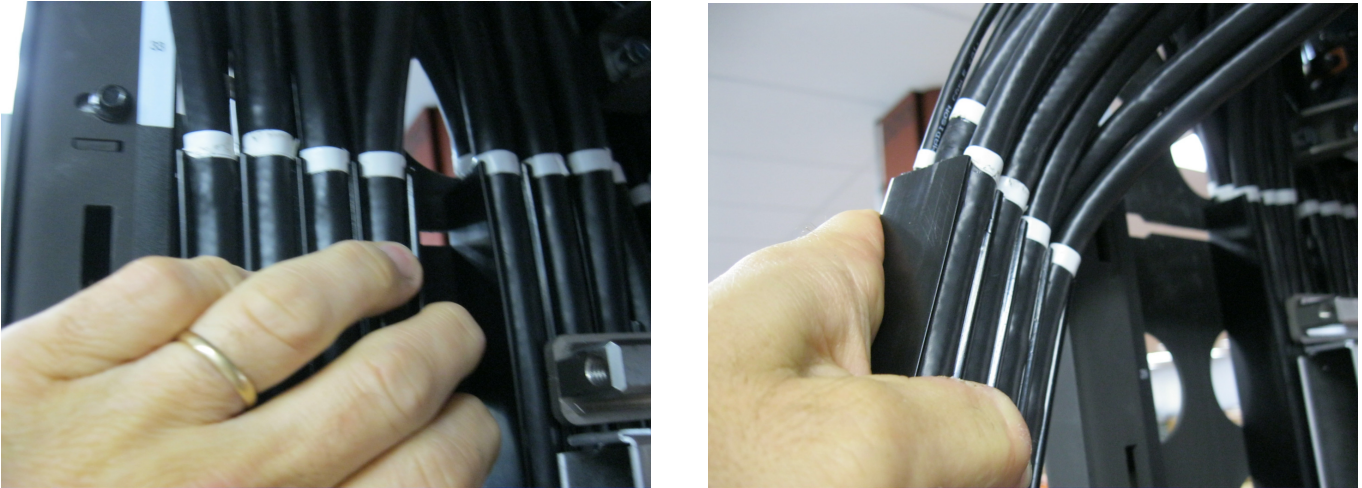


Figure 12 DCCA Power Cable Raceway Removal

STEP 15 Remove the target communications cable from system.

- a) Remove the desired communications cable out of the raceway (see Figure 13 below).
- b) Locate the BPCH end of the desired communications cable and unplug the connector from the BPCH.

NOTE: DCCA Power Cables and Velcro ties will need to be temporarily removed from the cable bundle to gain access to the desired cable allowing it to be removed.



Figure 13 Communications Cable Removal

3.3 Re-install Mechanicals and Replacement Cable <= SSR TASK

STEP 16 On the new communications cable, verify that the plug location labels on the cable are located on the appropriate ends of the cable (DCCA or BPE end). Align the white stripe on the cable jacket with the top surface of the raceway and stripes on adjacent cables. Starting from the white stripe, firmly press the cable into the raceway finger working downward until the cable is fully inserted. All cables in the raceway finger must be nested in their proper position. Once the two communications cables are placed in the base of the raceway, press the first DCCA Power Cable into the raceway above them. There can be no twists or kinks in any of the cables or they will not fully nest within the fingers. The second DCCA Power Cable can then be pressed into the raceway over the first. All of the white indicator stripes on the cable jackets should be aligned per Figure 12 and Figure 13. (refer to figure 2 for proper cable placement within the raceway).

STEP 17 Note that if removal of the long raceway is required for cables associated with drawer locations 5, 7, 9, and/or 11, the lower left BPE mounting bracket and standoff must be removed to allow the raceway to be slid forward. Using ratchet 6428140, extension 46K2707, and 5mm hex bit 74Y0986, loosen the captive screws and remove the BPE mounting bracket. Using 16mm socket 5497588, remove the mounting standoff from the rack. The long raceway and cables can now be slid forward. (see photo in Figure 14)

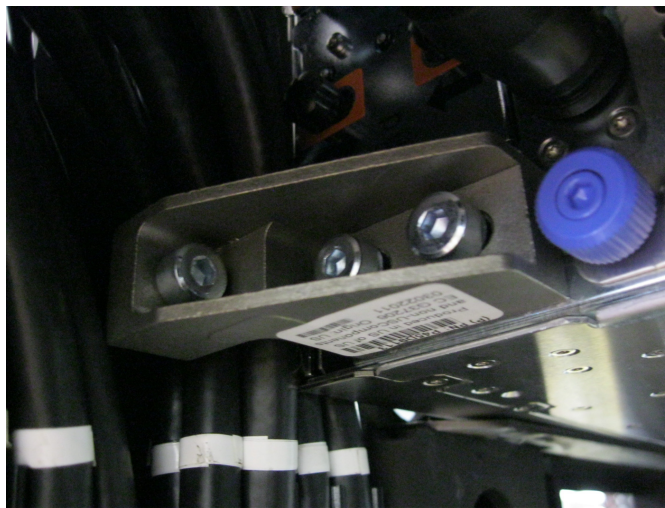


Figure 14 BPE Mounting Bracket Removal

STEP 18 Once the new cable has been inserted into the appropriate raceway slot, install raceways into their original positions.

STEP 19 Secure UPIC raceway bracket retention screw using ¼” drive ratchet and 7mm socket (see photo in Figure 10).

STEP 20 Plug the communications cable connector into the appropriate receptacle on the CEC DCCA (or Disk Enclosure DCCA). Press connector into receptacle until the retention latch engages. Cable path and bend radius must be similar to adjacent cables and must be secured with Velcro tie similar to adjacent cables.

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STEP 21 Plug communications cable connector into the appropriate receptacle on the BPCH. Communications cable to be bundled with existing cables in front of the BPCH using Velcro ties as needed.

STEP 22 Move UEPO down to the standard location using 4mm hex driver 41V1059.

STEP 23 Install cover latch using hex driver 41V1059. Check to ensure the front cover closes properly and adjust cable paths if required.

STEP 24 Close HMC Serviceable Event for Communications Cable being serviced.

STEP 25 After all cable management tasks have been completed activate the communications port on the BPCH that connects the serviced ethernet/communications cable. Use BPC ASM to start communications on the BPCH port using the following command format:

```
bpccmd -c 11ee0000<CageID><FF>
```

Where CageID is the 2 character Hex value for the CEC drawer(Figure 15) or Disk Enclosure(Figure 6).

FF is the fru id, it is 90 for DCCA1 and 91 for DCCA2

For CEC Drawers:

DCCA1 is the top DCCA - 90

DCCA2 is the bottom DCCA - 91

For Disk Enclosures Drawers:

DCCA1 is the left DCCA - 90

DCCA2 is the right DCCA - 91

A successful return code is: '00EE00'. If you do not receive a successful return code, contact next level of support.

Example:

```
bpccmd -c 11ee00000390
```

Executes the command on the bottom CEC Drawer (in U.5).

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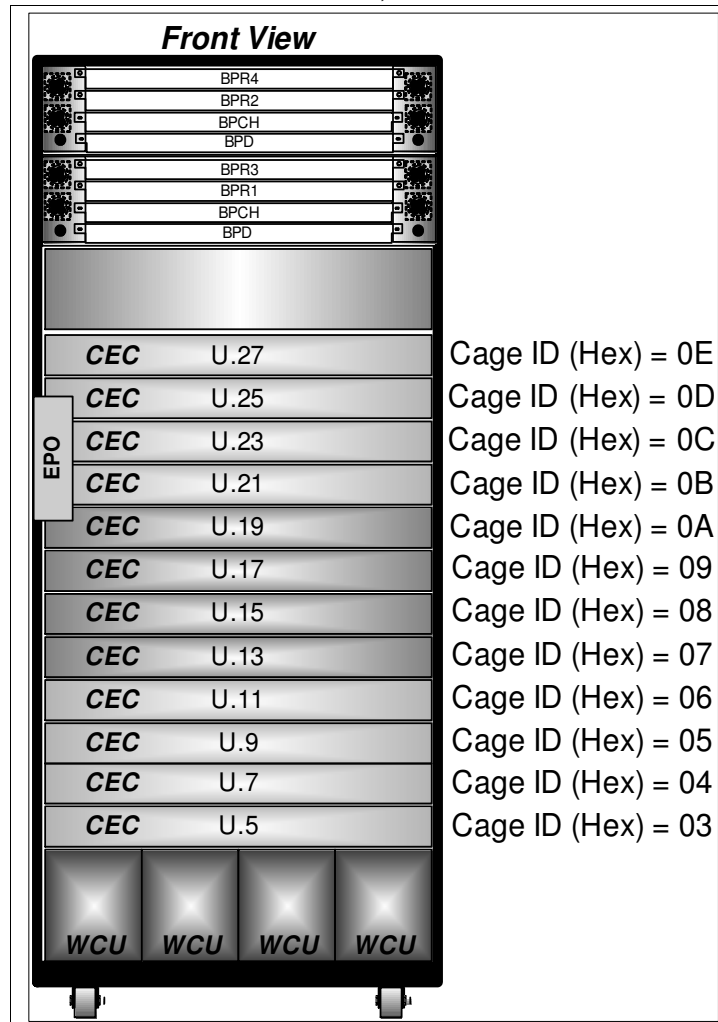


Figure 15 CEC Drawer HEX Cage ID

STEP 26 Are you are servicing a cable on a CEC Drawer?

If Yes, then perform STEP 27 to STEP 28, then skip to STEP 30

If No(performing cable service on a DE), then skip to STEP 29.

STEP 27 Turn off the Identification LEDs for the UEPO switch, CEC Drawer and DCCA. Return to the window titled **Identify LED, Select Location**, and *click* the **Deactivate LED** button.

STEP 28 *Click* the **Cancel** buttons to close the **Identify LED** windows. Skip to STEP 30.

STEP 29 Turn off the Identification LEDs for the UEPO switch, DE and DCCA, use the BPC FSP ASM to issue the following command, using the procedure “Appendix: Power775 BPC FSP Command Line Procedure” (included in this PDF). This is the same command as in STEP 7 except 00 instead of 02 at the end of the command:

```
bpccmd -c 27110000<CageID><FF>00
```

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Where CageID is the 2 character Hex value for the Disk Enclosure(Figure 6).

FF is the fru id, it is 90 for DCCA1 and 91 for DCCA2

For Disk Enclosures:

DCCA1 is the left DCCA - 90

DCCA2 is the right DCCA – 91

A successful return code is: '001100'. If you do not receive a successful return code, contact next level of support.

Example:

```
bpccmd -c 271100000f9000
```

Executes the command on DCCA1(left DCCA) of the DE installed in Cage 0f

STEP 30 Log out of BPC FSP ASM.

STEP 31 Close the front door.

STEP 32 To verify that the replacement cable is working properly, check the HMC for a serviceable event related to the DCCA communications cable that has been replaced.

- If no DCCA communications cable serviceable events are created within 15 minutes of completion of STEP 25 then the replacement is considered complete.
- If a DCCA communications cable serviceable event is created within 15 minutes of completion of STEP 25 then the replacement has failed. If the replacement has failed, service the cable again.

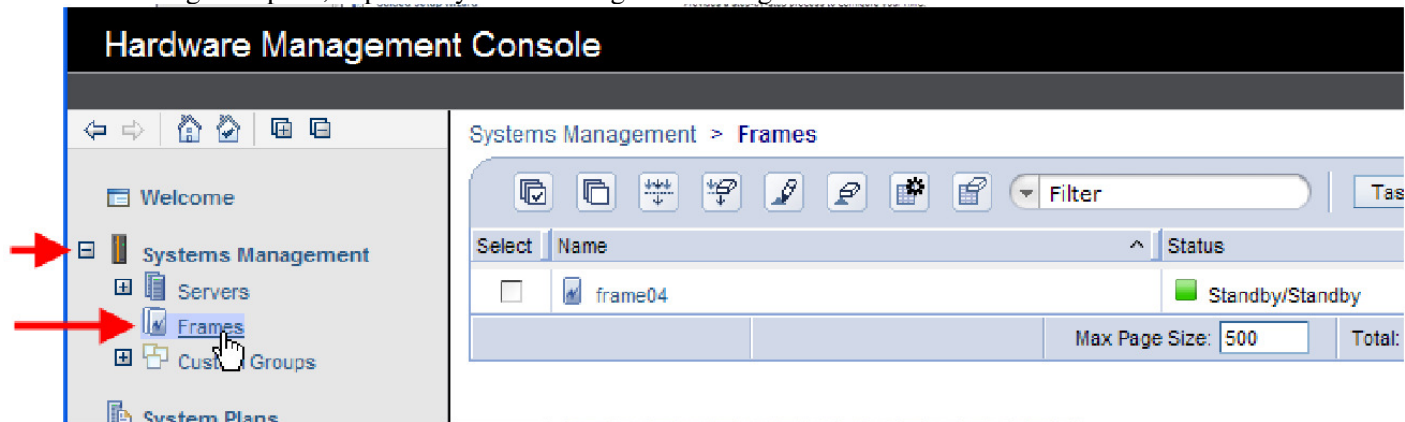
STEP 33 Procedure is complete after STEP 32 no longer reports a DCCA communications cable serviceable event for the cable that was just replaced.

4 END OF POWER775 DISTRIBUTED CONVERTER AND CONTROL ASSEMBLY (DCCA) SERVICE NETWORK COMMUNICATIONS CABLE SERVICE PROCEDURE

5 APPENDIX A: POWER775 BPC FSP COMMAND LINE PROCEDURE

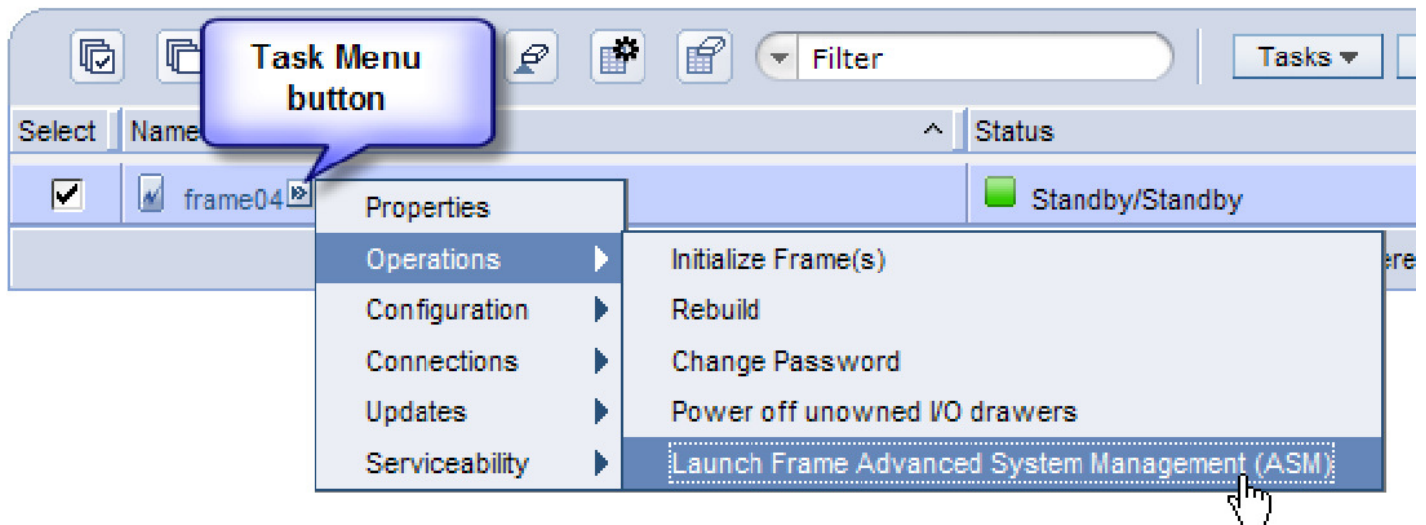
5.1 Procedure to Access the BPC FSP Command Line

1. The HMC can be accessed via the keyboard/display that resides in the network management rack.
2. Login to the HMC if not done already.
3. In the HMC navigation pane, expand 'Systems Management' + sign and then click 'Frames':



4. From the Tasks Menu right-arrow pull-down menu, click **Operations** → **Launch Frame Advanced Systems Management (ASM)**

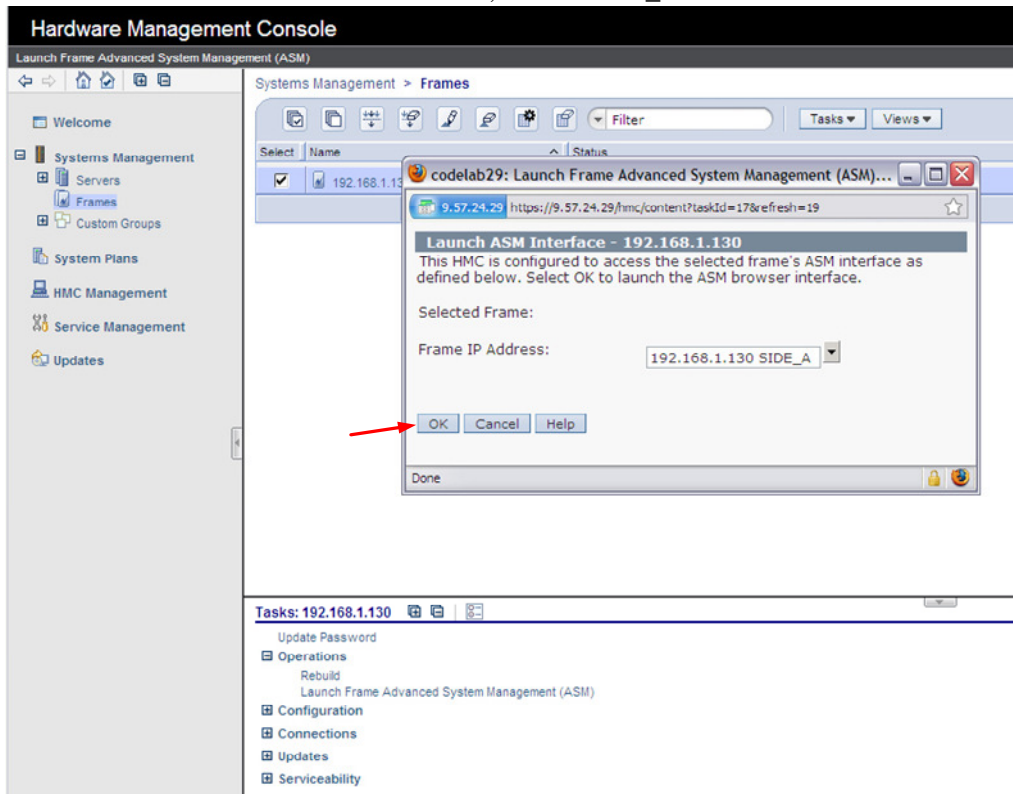
Systems Management > Frames



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5. From the Launch ASM Interface window, select **SIDE_A** for the 'Frame IP Address' then click the **OK** button.

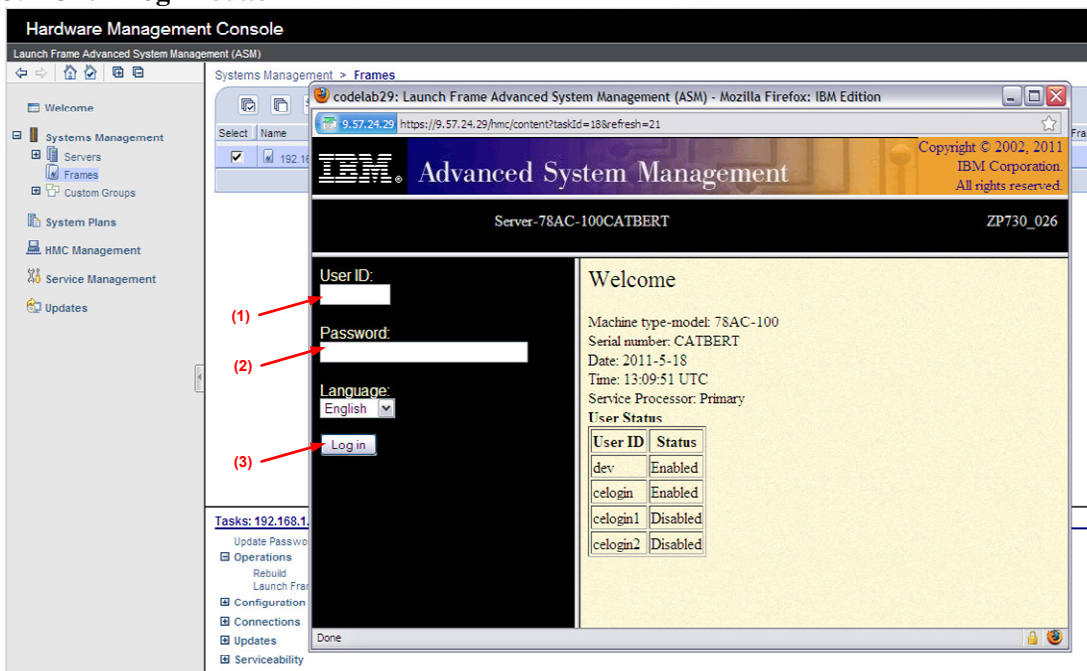


6. The ASM login window is presented. Acquire the necessary User ID and Password.

“celogin” requires Daily PW from the IBM Support Center.

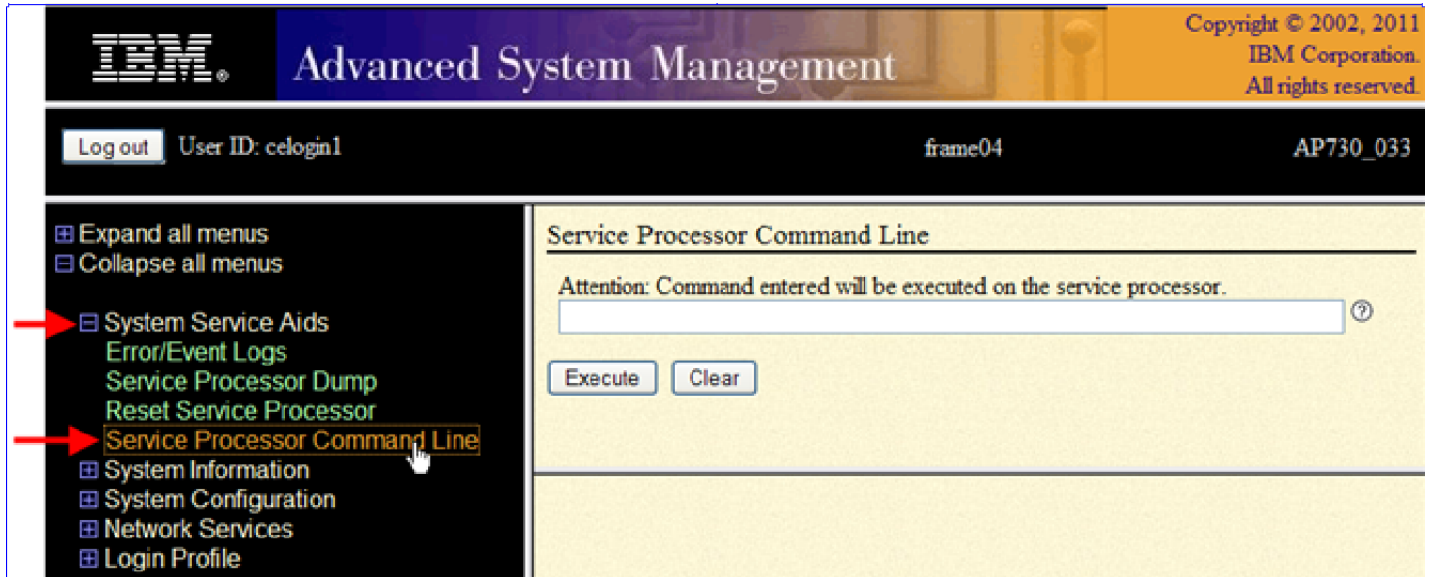
“celogin1” might be has enabled by the customer. If so, obtain the password from the customer.

1. Enter User ID
2. Enter Password
3. Click **Log in** button



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7. Expand 'System Service Aids' + sign and Select 'Service Processor Command Line'.



8. The ASM BPC FSP Command line will be presented. Enter the commands defined in the paper service procedures at this command line and press the Enter key (or click the **Execute** button).
9. Return to the step of the paper service procedure that directed you to this Appendix.

5.2 End of Appendix A: Power775 BPC FSP Command Line Procedure