

## **Power775**

# **Water Conditioning Unit (WCU) Motor Drive Assembly (MDA) Power Cable Service Procedure Last Modified 11/03/2011**

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# Power775 WCU MDA Power Cable Service Procedure

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# 1 GENERAL

## 1.1 Release / Revision History

Document Name	Date	PDF name	Description
Power775 WCU MDA Power Cable Service Procedure	11/03/2011	"p775_wcu_mda_pwr_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 WCU MDA Power Cable Service Procedure document is "p775\_wcu\_mda\_pwr\_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 "Repair and Verify (R&V) Procedures performed on the HMC", click "Power775 WCU MDA Power Cable Service Procedure" to download PDF "p775\_wcu\_mda\_pwr\_cable.pdf"

This is the only valid source for the latest Power775 WCU MDA Power Cable Service Procedure.

## 1.3 Required Documents

Document	PN	Location
Safety Notices <a href="http://publib.boulder.ibm.com/infocenter/powersys/v3r1m5/topic/p7hdx/G229-9054.pdf">http://publib.boulder.ibm.com/infocenter/powersys/v3r1m5/topic/p7hdx/G229-9054.pdf</a>	Doc# G229-9054	InfoCenter *

Table 2 Required Documents

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

## 1.4 Abbreviations

Abbreviation	Definition	Details
BPCH	Bulk Power Control Hub	
CEC	Central Electronic Complex	Also referred to as the node.
DCCA	Distributed Conversion and Control Assembly	The power supplies for the 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	
MDA	Motor Drive Assembly	
PCB	Printed Circuit Board	
RAID	Redundant Array of Inexpensive Disks	
SAS	Serial Attached SCSI	Protocol used for direct attached storage
SCB	Static Circuit Breaker	Port on BPD that controls 350V to power cables
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 is this type of cable
WCU	Water Conditioning Unit	

## 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:

<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 Confirm how you got to this Service Procedure

You should be performing this procedure if an SRC directed you to replace a WCU MDA Power 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 WCU MDA Power Cable Service Procedure

### 2.3 WCU MDA Power Cable Description

Referring to Figure 1 below showing the system front cover open, WCU MDA Power Cables are located in front of each WCU MDA, and terminate in the top/front of the system on each Bulk Power Control Hub (BPCH). The WCU MDA Power Cables supply 350V to the WCU MDAs.

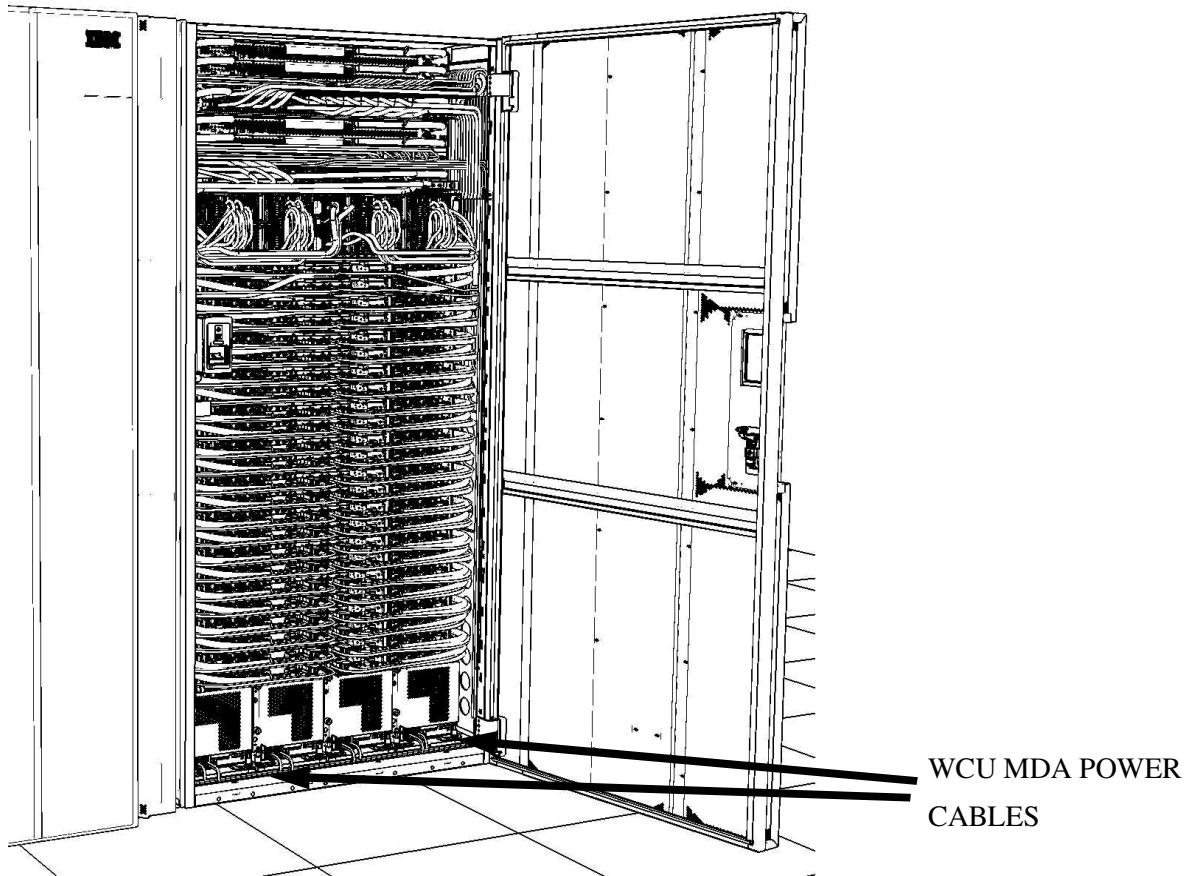


Figure 1 WCU MDA Power Cable Locations

## 2.4 Background

All WCU MDA Power Cables (which are UPIC cables) are located in the front of the rack. For each WCU MDA, there are two Power Cables which carry voltage from the BPCH at the top of the system, to each WCU MDA. These cables are routed in the 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. Raceways are located on both the left and right sides of the rack. Cables exiting the WCU MDAs on the right side of the rack terminate to the upper BPCH. Cables exiting the WCU MDAs on the left side terminate to the lower BPCH. 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 must be placed in their exact position with no twists or kinks (see Figure 2).

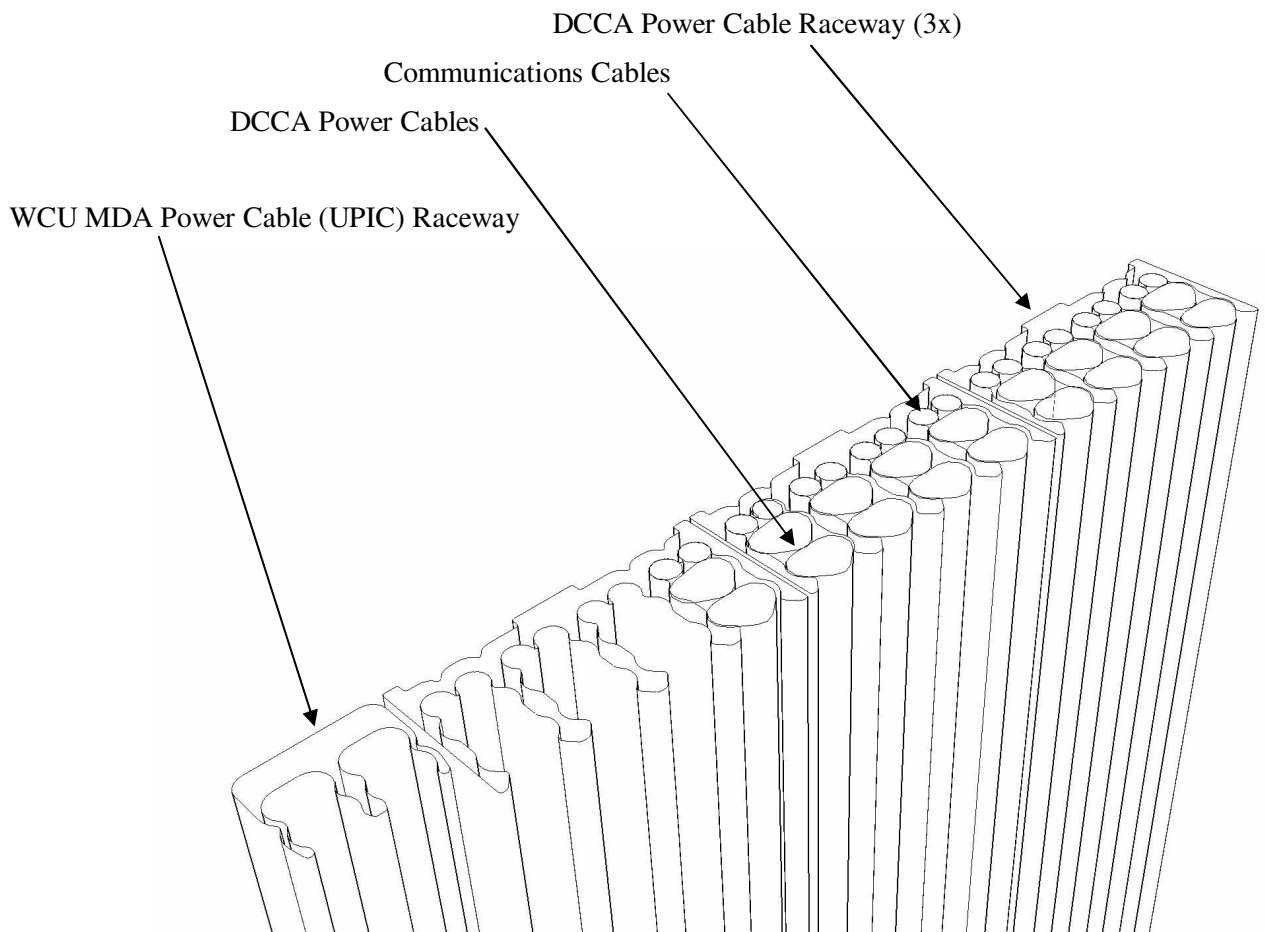


Figure 2 Typical Raceway Cross Section

## 2.5 Concurrency

The WCU MDA Power Cables are concurrently maintainable.

## 2.6 WCU MDA Power Cable Weight

WCU MDA Power Cables weigh about 1 lb (0.45 kg).



## 2.7 Required Systems Service Representatives (SSRs) and Roles

This service procedure requires 1 SSR.

---

## 2.8 Estimated Service Time

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

---

## 2.9 P7IH Hand Tool Kit Required Tools

- 4mm Hex Driver (1.5-1.75 Nm torque setting) PN 41V1059\*
- 2mm hex driver (P/N 74Y0983)
- Velcro puck (P/N 31L7174)

\* 4mm hex driver is only required if servicing cables on the left side of the system

---

## 2.10 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
- 

## 2.11 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.

<a href="#">3.1</a>	<a href="#">IDENTIFY WCU MDA REQUIRING POWER CABLE SERVICE &lt;= SSR TASK</a> .....	10
<a href="#">3.2</a>	<a href="#">POWER OFF AND REMOVE FAILED WCU MDA POWER CABLE &lt;= SSR TASK</a> .....	14
<a href="#">3.3</a>	<a href="#">INSTALL THE NEW WCU MDA POWER CABLE &lt;= SSR TASK</a> .....	19
<a href="#">3.4</a>	<a href="#">POWER ON THE WCU MDA POWER CABLE &lt;= SSR TASK</a> .....	20

### 3 SERVICE PROCEDURE

**STOP – Do not proceed** unless you have read “Safety Notices” which is available from InfoCenter; see Section 1.3.

#### 3.1 Identify WCU MDA requiring Power Cable Service <= SSR TASK

STEP 1 Determine with the customer which is the primary HMC that manages the Frame with the WCU MDA cable to be serviced.

Note: The HMC can be accessed via the keyboard/display that resides in the management rack.

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

STEP 3 Place a checkmark in the Select column of the first CEC Drawer (see Figure 3). You will flash the WCU MDA Identify LED to verify that you are servicing a Power Cable on the correct WCU MDA.

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

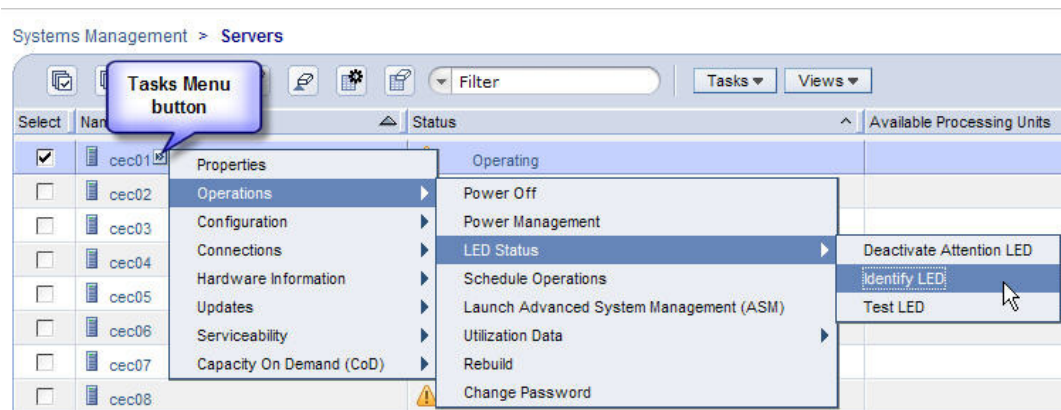
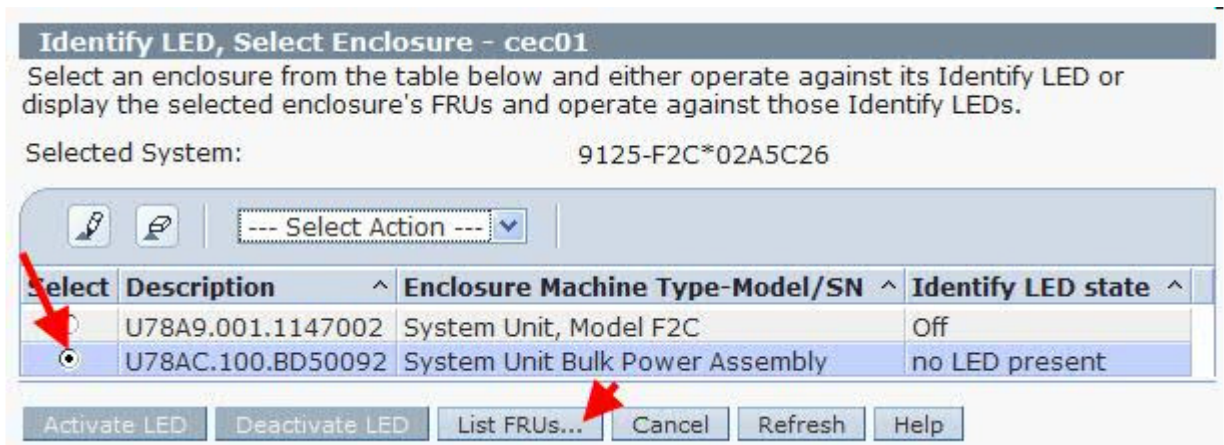


Figure 3 Identify LED Selection

## Power775 WCU MDA Power Cable Service Procedure

- STEP 5 In the window titled **Identify LED, Select Enclosure** *select System Unit, Bulk Power Assembly* then *click* the **List FRUs...** button (see Figure 4).



The screenshot shows a software window titled "Identify LED, Select Enclosure - cec01". Below the title bar, there is a text area with instructions: "Select an enclosure from the table below and either operate against its Identify LED or display the selected enclosure's FRUs and operate against those Identify LEDs." Below this, it says "Selected System: 9125-F2C\*02A5C26".

Below the text is a toolbar with a pencil icon, an eraser icon, and a dropdown menu labeled "--- Select Action ---".

The main area contains a table with the following data:

Select	Description ^	Enclosure Machine Type-Model/SN ^	Identify LED state ^
<input type="radio"/>	U78A9.001.1147002	System Unit, Model F2C	Off
<input checked="" type="radio"/>	U78AC.100.BD50092	System Unit Bulk Power Assembly	no LED present

At the bottom of the window, there are several buttons: "Activate LED", "Deactivate LED", "List FRUs..." (highlighted with a red arrow), "Cancel", "Refresh", and "Help".

Figure 4 System Unit, Bulk Power Assembly

## Power775 WCU MDA Power Cable Service Procedure

STEP 6 In the window **Identify LED**, Select **Location**, place a checkmark in the Select column for the Water Conditioning Unit(WCU) Location Code requiring power cable service and then *click* the **Activate LED** button(see Figure 5).

NOTE: Each WCU MDA has two Power Cables with location codes T1 and T2. An example selection would be U78AC.100.[Serial#]-P1-C1-T2. There are no LEDs for the individual cable locations T1 and T2.

**Identify LED, Select Location - cec01**

The current Identify LED states for all the location codes contained in the selected enclosure are displayed below. Select a single location code or multiple location codes to operate against and activate or deactivate the LED(s) by selecting the corresponding button.

Selected System: 9125-F2C\*02A5C26  
 Selected Enclosure: System Unit Bulk Power Assembly, 78AC-100/BD50092

--- Select Action ---

Select	Location	Description	Identify LED State
<input type="checkbox"/>	U78AC.100.BD50092-P2-E3	Bulk Power Regulator	Off
<input type="checkbox"/>	U78AC.100.BD50092-P2-E4	Bulk Power Regulator	Off
<input type="checkbox"/>	U78AC.100.BD50092-P2-E5	Bulk Power Regulator	Off
<input type="checkbox"/>	U78AC.100.BD50092-P2-E6	Bulk Power Regulator	Off
<input type="checkbox"/>	U78AC.100.BD50092-P2-T1	unknown	no LED present
<input type="checkbox"/>	U78AC.100.BD50092-P2-T2	unknown	no LED present
<input checked="" type="checkbox"/>	U78AC.100.BD50092-P3	Water Conditioning Unit	Off
<input type="checkbox"/>	U78AC.100.BD50092-P3-C1	WCU Motor Drive Assembly	no LED present
<input type="checkbox"/>	U78AC.100.BD50092-P3-C1-T1	unknown	no LED present
<input type="checkbox"/>	U78AC.100.BD50092-P3-C1-T2	unknown	no LED present
<input checked="" type="checkbox"/>	U78AC.100.BD50092-P4	Water Conditioning Unit	Off
<input type="checkbox"/>	U78AC.100.BD50092-P4-C1	WCU Motor Drive Assembly	no LED present
<input type="checkbox"/>	U78AC.100.BD50092-P4-C1-T1	unknown	no LED present
<input type="checkbox"/>	U78AC.100.BD50092-P4-C1-T2	unknown	no LED present
<input checked="" type="checkbox"/>	U78AC.100.BD50092-P5	Water Conditioning Unit	Off
<input type="checkbox"/>	U78AC.100.BD50092-P5-C1	WCU Motor Drive Assembly	no LED present
<input type="checkbox"/>	U78AC.100.BD50092-P5-C1-T1	unknown	no LED present
<input type="checkbox"/>	U78AC.100.BD50092-P5-C1-T2	unknown	no LED present
<input checked="" type="checkbox"/>	U78AC.100.BD50092-P6	Water Conditioning Unit	Off
<input type="checkbox"/>	U78AC.100.BD50092-P6-C1	WCU Motor Drive Assembly	no LED present
<input type="checkbox"/>	U78AC.100.BD50092-P6-C1-T1	unknown	no LED present

Activate LED
Deactivate LED
Refresh
Cancel
Help

Figure 5 WCU Identify LED Selection

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STEP 7 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 8 After locating the Frame that requires the service, do the following:



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

- a) Open the front door
- b) Verify the Frame and WCU MDA serial numbers to ensure the correct location
- c) Verify that the WCU MDA ID (!) LED is flashing for the WCU MDA with the Power Cable that requires service (see Figure 6).

### Front View

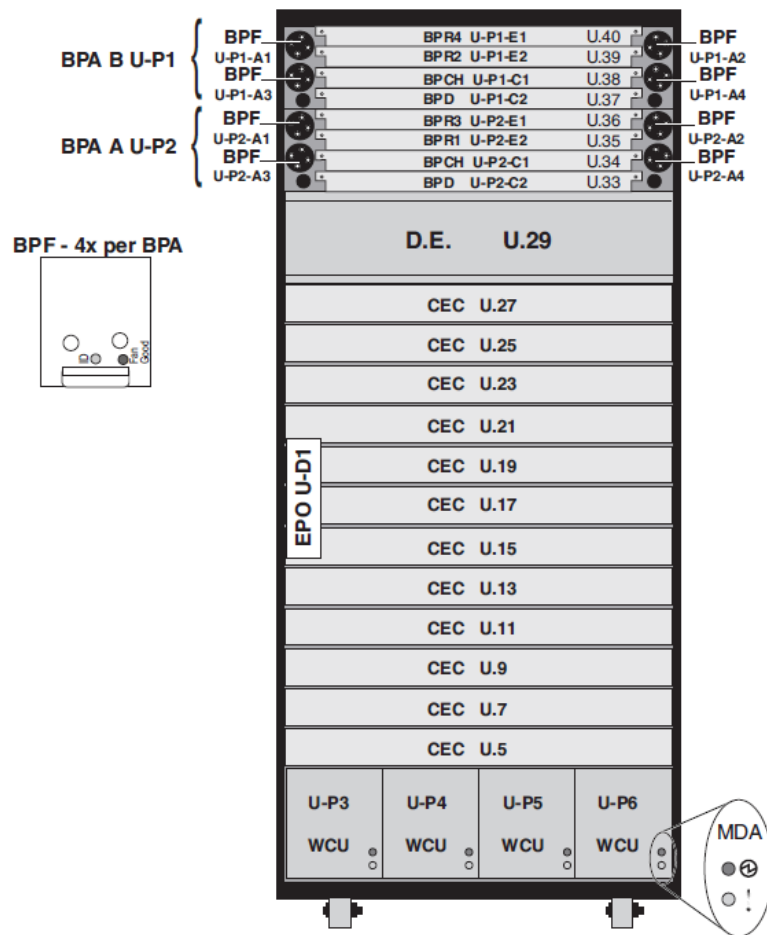


Figure 6 Front View of Frame

## 3.2 Power off and remove failed WCU MDA Power Cable <= SSR TASK

STEP 9 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 of the frame with the WCU MDA Power Cable needing replacement..

Use BPC FSP Command Line from the A side BPA if replacing a cable on the left side of the frame.

Use BPC FSP Command Line from the B side BPA if replacing a cable on the right side of the frame.

STEP 10 From the BPC FSP Command Line, deactivate the BPC WCU port for the WCU MDA Power Cable by using the following command format:

```
bpccmd -c 10ee0000ff<FF><TT>
```

<FF> = 80 for the A side BPA(lower BPA) and are connected to WCU MDA port T1

<FF> = C0 for the B side BPA(upper BPA) and are connected to WCU MDA port T2

<TT> is the BPC Static Circuit Breaker(SCB) connector id: 06 to 09.

```
FOR 78AC.100.xxxxxxx-P3-T1 use "bpccmd -c 10ee0000ff8006"
```

```
FOR 78AC.100.xxxxxxx-P4-T1 use "bpccmd -c 10ee0000ff8007"
```

```
FOR 78AC.100.xxxxxxx-P5-T1 use "bpccmd -c 10ee0000ff8008"
```

```
FOR 78AC.100.xxxxxxx-P6-T1 use "bpccmd -c 10ee0000ff8009"
```

```
FOR 78AC.100.xxxxxxx-P3-T2 use "bpccmd -c 10ee0000ffC006"
```

```
FOR 78AC.100.xxxxxxx-P4-T2 use "bpccmd -c 10ee0000ffC007"
```

```
FOR 78AC.100.xxxxxxx-P5-T2 use "bpccmd -c 10ee0000ffC008"
```

```
FOR 78AC.100.xxxxxxx-P6-T2 use "bpccmd -c 10ee0000ffC009"
```

A successful return code is: ‘00EE00’.

If something different is returned, contact the next level of support. For reference, the returned “rrEEdd” format hexadecimal characters can be translated as follows:

**“rr” Return Code Definitions:**

00 = Command executed properly

21 = Cage Not Present / Configured

22 = FRU Not Present / Configured. Try sending command from other side BPCH ASM

27 = Location code error

4A = Error in sent command

4B = Invalid State

95 = BPCH LIC Detected Error

96 = Mail-boxing error

**“EE” Sequence Number:**

EE = Arbitrary and unimportant

**“dd” Return Data Definitions**

00 = WCU MDA Power Cable deactivate successful. It is OK to continue the service action



## Power775 WCU MDA Power Cable Service Procedure

STEP 11 If servicing a WCU MDA Power 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).

Upper UEPO Mounting Bracket

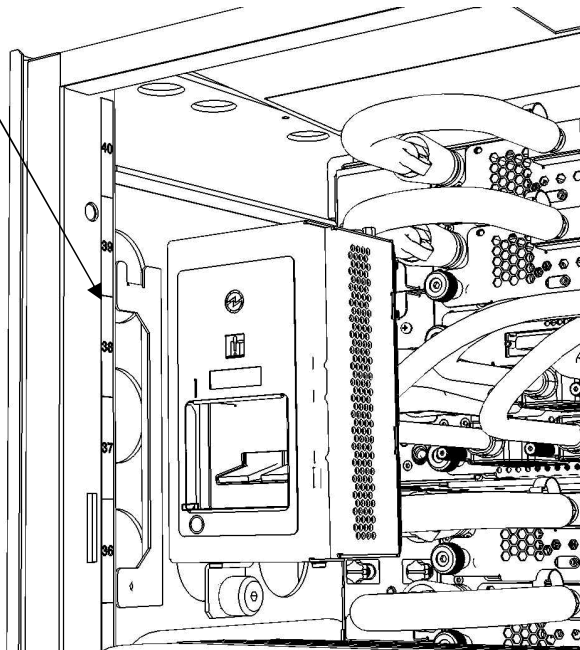


Figure 7 UEPO Service Position

## Power775 WCU MDA Power Cable Service Procedure

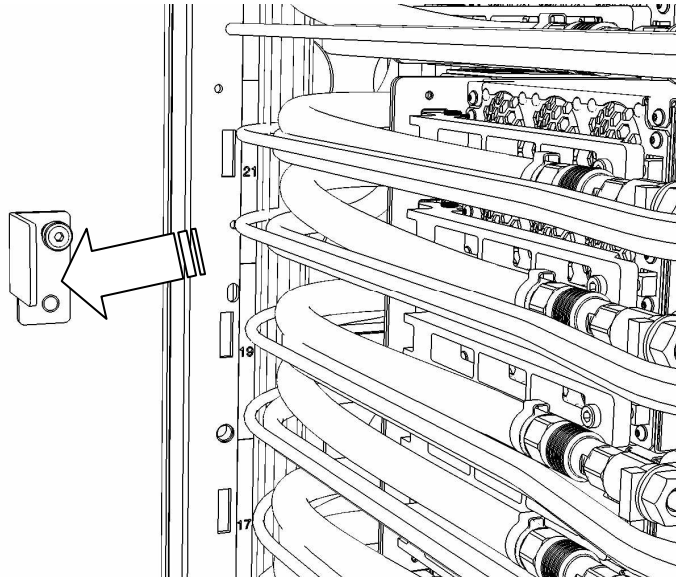


Figure 8 Remove Cover Latch Bracket

STEP 12 Unplug the WCU MDA Power Cable from WCU MDA by depressing the cable latch/tab(see arrow in Figure 10) and pulling the connector plug away from the WCU (see Figure 9 and Figure 10).



Figure 9 WCU MDA



## Power775 WCU MDA Power Cable Service Procedure

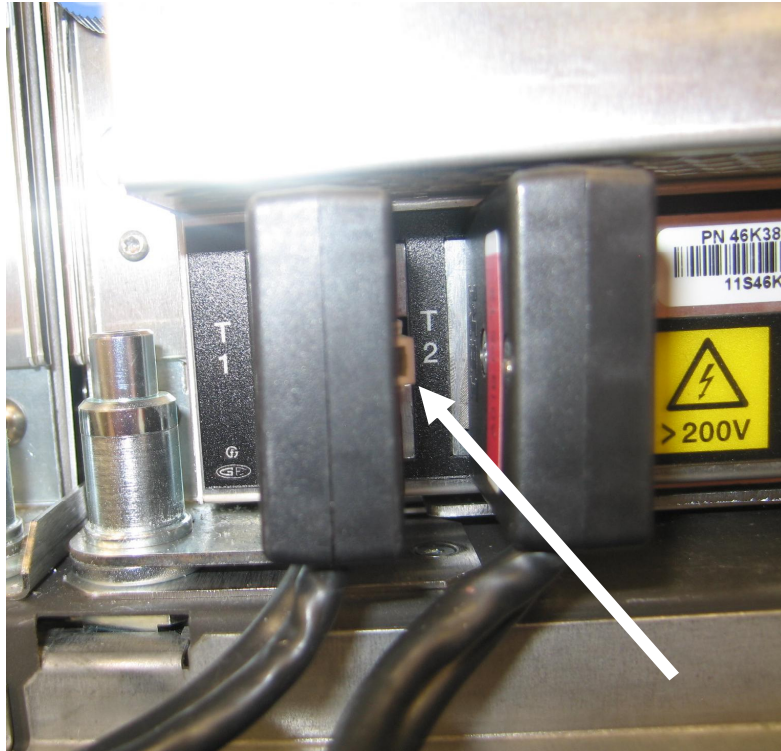


Figure 10 WCU MDA end of Power Cable

- STEP 13 Unplug the WCU MDA Power Cable from the BPCH by sliding the white Locking Wedge away from the cable connector, depressing the connector latch, and unplugging the cable connector (see Figure 11, Figure 12 and Figure 13)

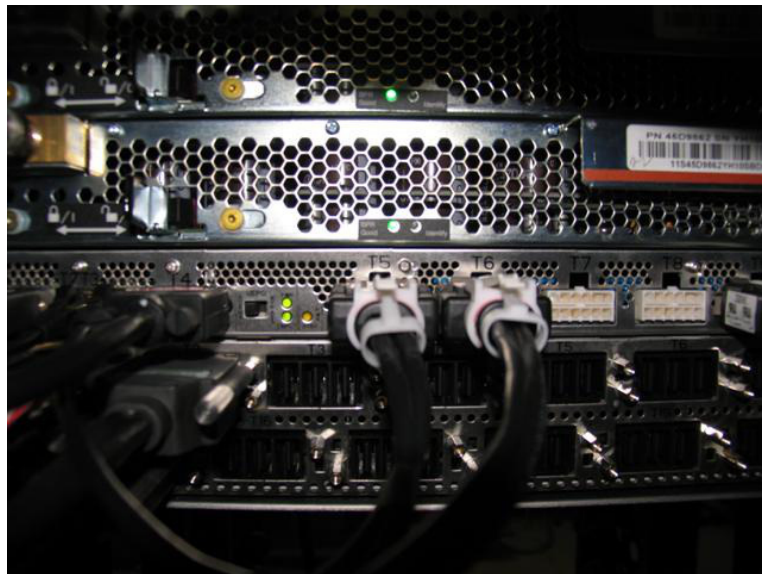


Figure 11 BPCH end of WCU MDA Power Cable

# Power775 WCU MDA Power Cable Service Procedure



Figure 12 White locking wedge slid out

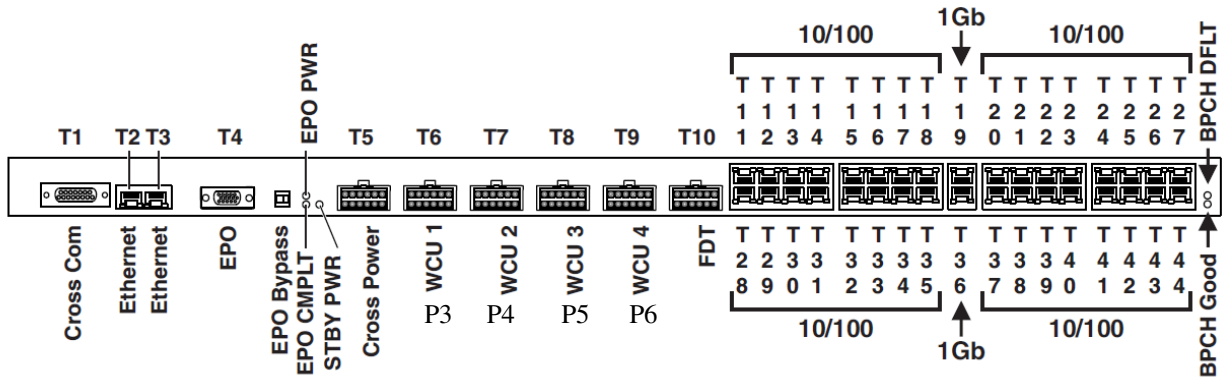


Figure 13 BPCH locations

## Power775 WCU MDA Power Cable Service Procedure

STEP 14 Label the replacement cable with the same information as the failed cable labels (Figure 14).



Figure 14 WCU MDA Power Cable labels

STEP 15 Remove any Velcro straps that are holding the failed WCU MDA Power Cable in place.

STEP 16 Remove the failed WCU MDA Power Cable from the raceway (see Figure 2).

---

### 3.3 Install the new WCU MDA Power Cable <= SSR TASK

STEP 17 Install the replacement WCU MDA Power Cable into the raceway making sure that there are no twists or kinks in the cable and make sure the cable is fully inserted.

STEP 18 Connect the replacement WCU MDA Power Cable to the BPCH at the correct location. Plug the cable connector, seat/engage the connector latch, and install the white Locking Wedge (see Figure 11 and Figure 12).

STEP 19 Connect the replacement WCU MDA Power Cable to the WCU MDA.

STEP 20 Re-install any Velcro straps that were removed.

STEP 21 If you moved the UEPO Panel on a previous step, move it back to the standard location using 4mm hex driver 41V1059.

STEP 22 Close HMC Serviceable Event for Power Cable being serviced.

## 3.4 Power on the WCU MDA Power Cable <= SSR TASK

STEP 23 Deactivate the BPC WCU port for the WCU MDA Power Cable by executing the following commands on the BPC FSP Command line, using the procedure “Appendix: Power775 BPC FSP Command Line Procedure” (included in this PDF).

```
bpccmd -c 11ee0000ff<FF><TT>
```

<FF> = 80 for the A side BPA(lower BPA) and are connected to WCU MDA port T1

<FF> = C0 for the B side BPA(upper BPA) and are connected to WCU MDA port T2

<TT> is the BPC Static Circuit Breaker(SCB) connector id: 06 to 09.

```
FOR 78AC.100.xxxxxxx-P3-T1 use "bpccmd -c 11ee0000ff8006"
```

```
FOR 78AC.100.xxxxxxx-P4-T1 use "bpccmd -c 11ee0000ff8007"
```

```
FOR 78AC.100.xxxxxxx-P5-T1 use "bpccmd -c 11ee0000ff8008"
```

```
FOR 78AC.100.xxxxxxx-P6-T1 use "bpccmd -c 11ee0000ff8009"
```

```
FOR 78AC.100.xxxxxxx-P3-T2 use "bpccmd -c 11ee0000ffC006"
```

```
FOR 78AC.100.xxxxxxx-P4-T2 use "bpccmd -c 11ee0000ffC007"
```

```
FOR 78AC.100.xxxxxxx-P5-T2 use "bpccmd -c 11ee0000ffC008"
```

```
FOR 78AC.100.xxxxxxx-P6-T2 use "bpccmd -c 11ee0000ffC009"
```

A successful return code is: ‘00EE00’.

If something different is returned, contact the next level of support. For reference, the returned “rrEEdd” format hexadecimal characters can be translated as follows:

**“rr” Return Code Definitions:**

00 = Command executed properly

21 = Cage Not Present / Configured

22 = FRU Not Present / Configured. Try sending command from other side BPCH ASM

27 = Location code error

4A = Error in sent command

4B = Invalid State

95 = BPCH LIC Detected Error

96 = Mail-boxing error

**“EE” Sequence Number:**

EE = Arbitrary and unimportant

**“dd” Return Data Definitions**

00 = WCU MDA Power Cable activate successful. It is OK to continue the service action

STEP 24 Log out of BPC FSP ASM.

## Power775 WCU MDA Power Cable Service Procedure

- STEP 25 Turn off the Identification LEDs for the WCU MDA. Return to the window titled **Identify LED**, Select **Location**, and *click* the **Deactivate LED** button.
- STEP 26 *Click* the **Cancel** buttons to close the **Identify LED** windows.
- STEP 27 Close the front door.

---

## 4 END OF POWER775 WCU MDA POWER CABLE SERVICE PROCEDURE

## 5 APPENDIX A: POWER775 BPC FSP COMMAND LINE PROCEDURE

### 5.1 General

#### 5.1.1 Release / Revision History

Document Name	Date	Description
Appendix: Power775 BPC FSP Service Procedure	9/26/2011	Initial Release

Table 3 Release / Revision History

#### 5.1.2 Required Documents

Document	Doc Number	Location
Safety Notices <a href="http://publib.boulder.ibm.com/infocenter/powersys/v3r1m5/topic/p7hdx/G229-9054.pdf">http://publib.boulder.ibm.com/infocenter/powersys/v3r1m5/topic/p7hdx/G229-9054.pdf</a>	G229-9054	InfoCenter

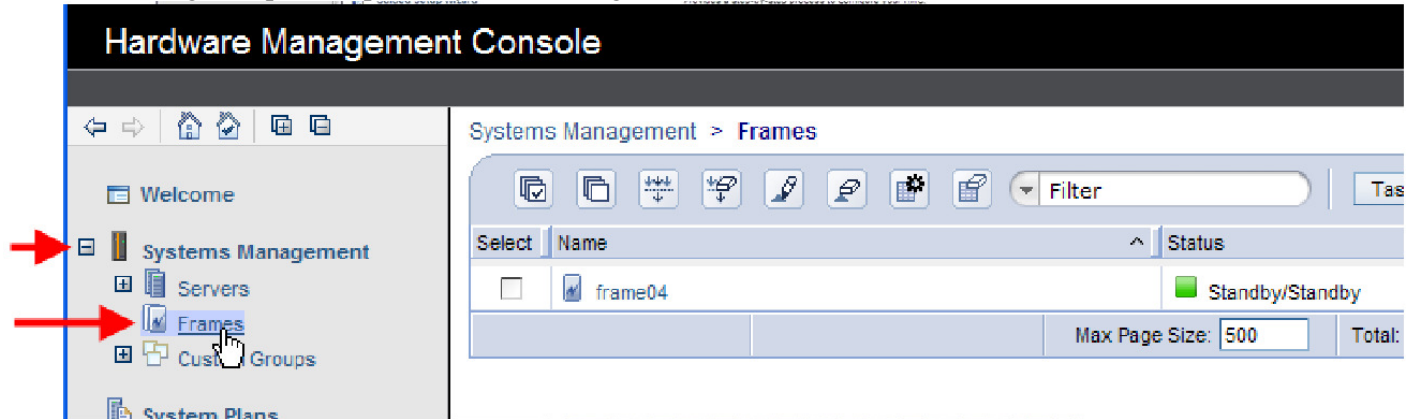
Table 4 Required Documents

### 5.2 Overview

This procedure describes how to access the BPC FSP Command line for paper service procedures that require it.

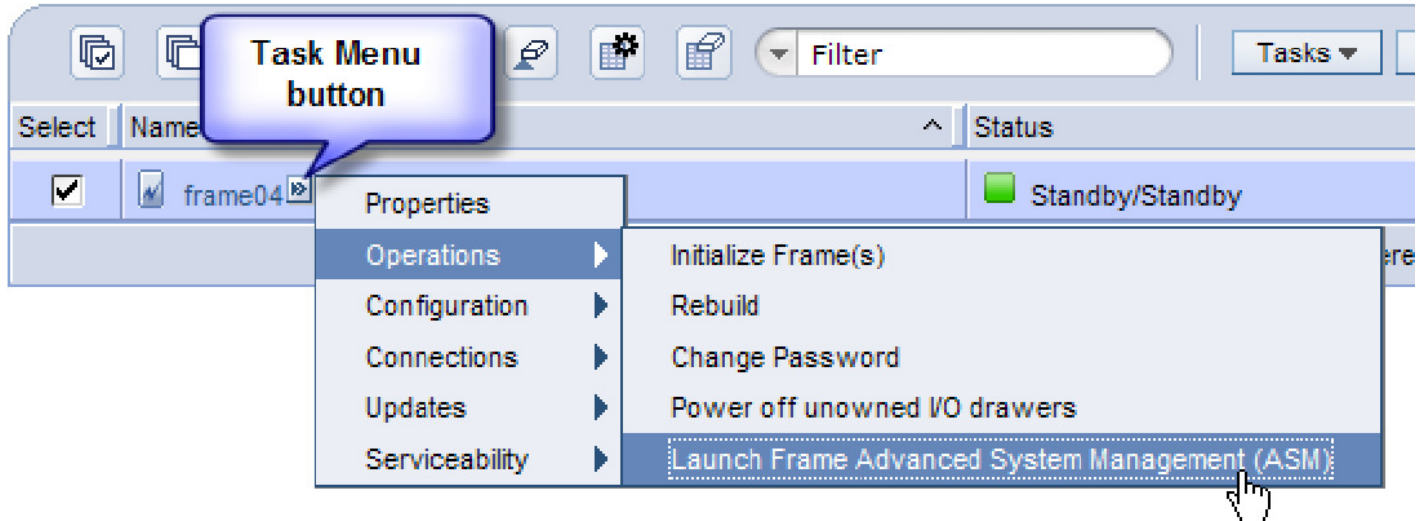
### 5.3 Procedure to Access the BPC FSP Command Line

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)**

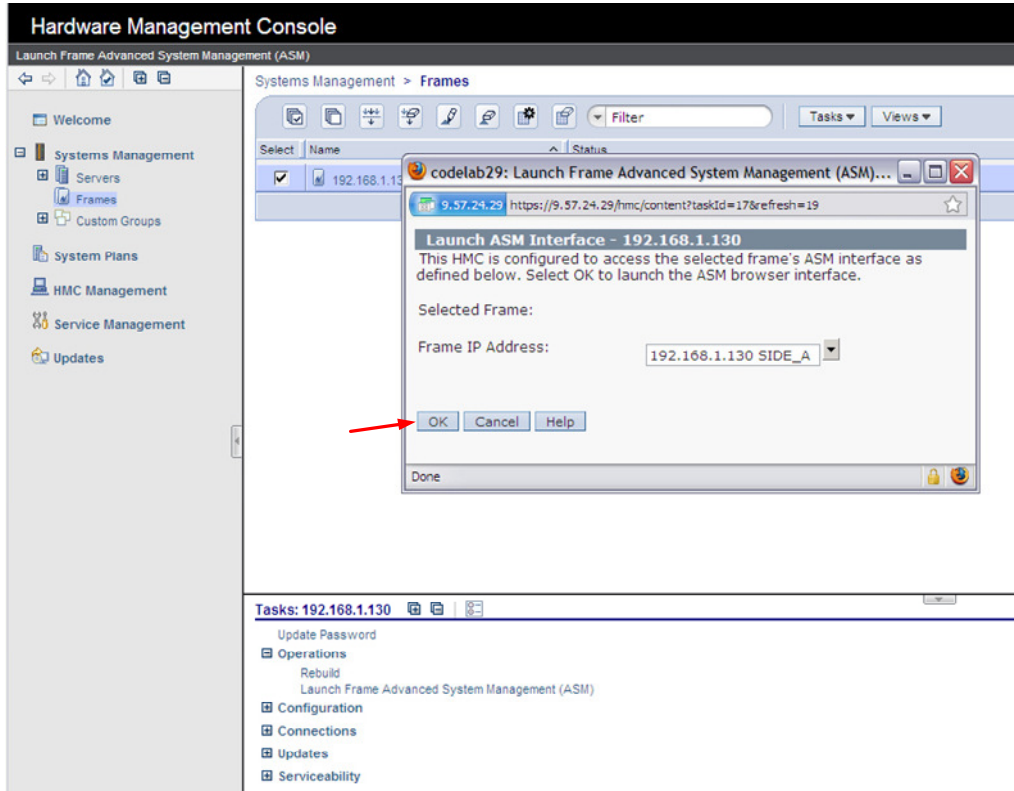
Systems Management > Frames





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- From the Launch ASM Interface window, select **SIDE\_A** for the 'Frame IP Address' then click the **OK** button.

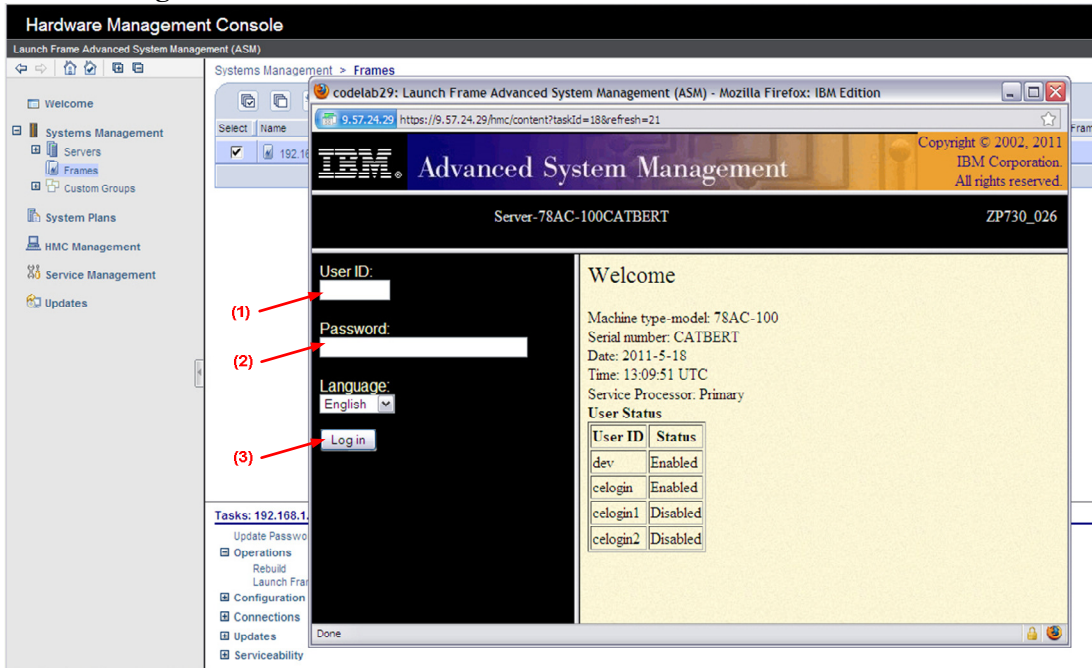


- The ASM login window is presented. Acquire the necessary User ID and Password.

“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.

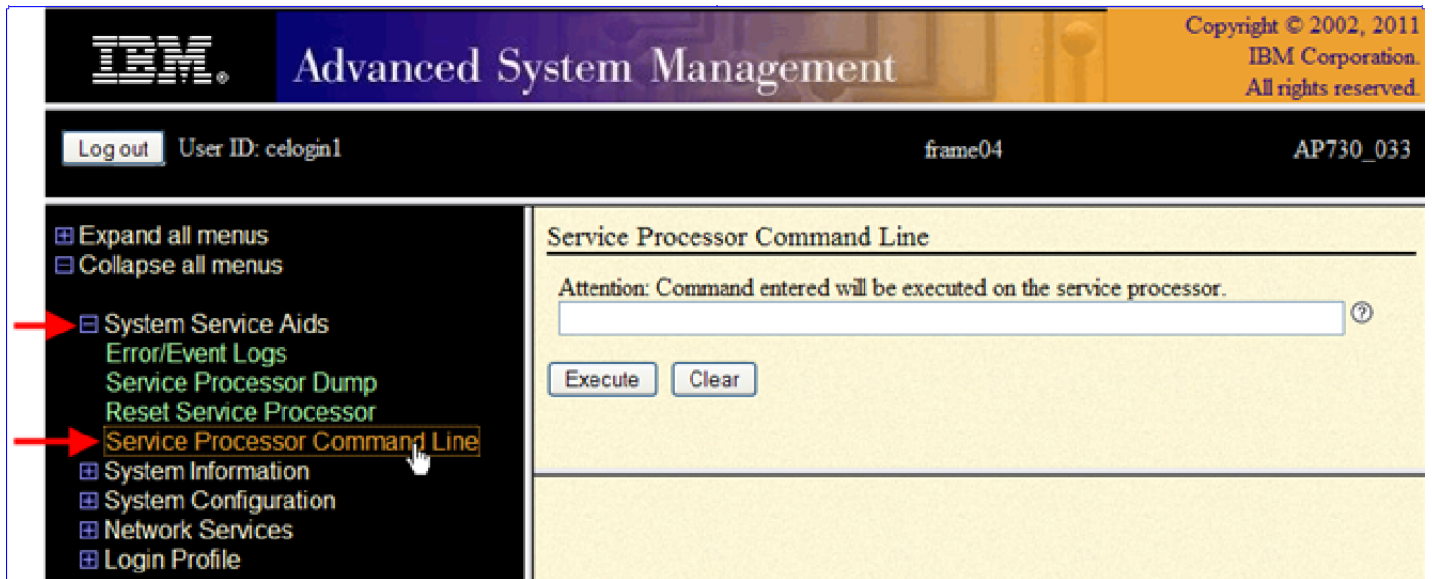
- Enter User ID
- Enter Password
- Click **Log in** button





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



The screenshot displays the IBM Advanced System Management (ASM) web interface. At the top, the IBM logo and 'Advanced System Management' title are visible, along with copyright information for 2002 and 2011. The user is logged in as 'celogin1' with 'User ID: celogin1', 'frame04', and 'AP730\_033' displayed. The left navigation menu is expanded, showing options like 'System Service Aids', 'Error/Event Logs', 'Service Processor Dump', 'Reset Service Processor', 'Service Processor Command Line' (highlighted with a red arrow and a mouse cursor), 'System Information', 'System Configuration', 'Network Services', and 'Login Profile'. The main content area is titled 'Service Processor Command Line' and features a warning message: 'Attention: Command entered will be executed on the service processor.' Below this is a text input field and two buttons: 'Execute' and 'Clear'.

- 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).
- Return to the step of the paper service procedure that directed you to this Appendix.

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### 5.4 End of Appendix: Power775 BPC FSP Command Line Procedure